

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 15, 2005, 06:46:34 ; Search time 537 Seconds
(without alignments)
10390.510 Million cell updates/sec

Title: US-09-605-783A-110
Perfect score: 3410

Sequence: 1 gggacacagcctgcacgcgc.....aaaaaaaaaaaaaaaaaaaa 3410

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*

- 1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PTCUS_COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3409.6	100.0	3410	3	US-09-020-956-110
2	3409.6	100.0	3410	3	US-09-030-607-110
3	3409.6	100.0	3410	3	US-09-439-313-110
4	3409.6	100.0	3410	3	US-09-352-616A-110
5	3409.6	100.0	3410	3	US-09-602-877A-100
6	3409.6	100.0	3410	3	US-09-232-149A-110
7	3409.6	100.0	3410	4	US-09-159-812-110
8	3409.6	100.0	3410	4	US-09-636-215-110
9	3409.6	100.0	3410	4	US-09-685-166A-110
10	3409.6	100.0	3410	4	US-09-115-453-110
11	3409.6	100.0	3410	4	US-09-688-489-110
12	3409.6	100.0	3410	4	US-09-679-426-110
13	3409.6	100.0	3410	4	US-09-759-143-110
14	3409.6	100.0	3410	4	US-09-651-236-110
15	2585.4	75.8	4034	4	US-09-636-215-704
16	2585.4	75.8	4034	4	US-09-685-166A-704
17	2585.4	75.8	4034	4	US-09-679-426-704
18	2585.4	75.8	4034	4	US-09-759-143-704
19	2585.4	75.8	4034	4	US-09-651-236-704
20	2196.4	64.4	2904	4	US-09-636-215-703
21	2196.4	64.4	2904	4	US-09-685-166A-703
22	2196.4	64.4	2904	4	US-09-679-426-703
23	2196.4	64.4	2904	4	US-09-759-143-703
24	2196.4	64.4	2904	4	US-09-651-236-703
25	2142.8	62.8	4894	4	US-09-636-215-702
26	2142.8	62.8	4894	4	US-09-685-166A-702
27	2142.8	62.8	4894	4	US-09-679-426-702

28	2142.8	62.8	4894	4	US-09-759-143-702	Sequence 702, App
29	2142.8	62.8	4894	4	US-09-651-236-702	Sequence 702, App
30	2136.4	62.7	2152	3	US-09-071-710-16	Sequence 16, Appl
31	2136.4	62.7	2152	3	US-09-525-397-16	Sequence 16, Appl
32	2114.8	62.0	2143	3	US-09-071-710-15	Sequence 15, Appl
33	2114.8	62.0	2143	3	US-09-525-397-15	Sequence 15, Appl
34	1815.8	53.2	6976	4	US-09-636-215-705	Sequence 705, App
35	1815.8	53.2	6976	4	US-09-685-166A-705	Sequence 705, App
36	1815.8	53.2	6976	4	US-09-679-426-705	Sequence 705, App
37	1815.8	53.2	6976	4	US-09-759-143-705	Sequence 705, App
38	1815.8	53.2	6976	4	US-09-651-236-705	Sequence 705, App
39	794.6	23.3	1203	4	US-09-636-215-851	Sequence 851, App
40	794.6	23.3	1203	4	US-09-685-166A-851	Sequence 851, App
41	794.6	23.3	1203	4	US-09-679-426-851	Sequence 851, App
42	794.6	23.3	1203	4	US-09-759-143-851	Sequence 851, App
43	794.6	23.3	1203	4	US-09-651-236-851	Sequence 851, App
44	673.4	19.7	789	3	US-09-020-956-10	Sequence 10, Appl
45	673.4	19.7	789	3	US-09-030-607-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1
US-09-020-956-110
; Sequence 110, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-110

Query Match 100.0%; Score 3409.6; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGAAACAGCCTGCACGCGCTGGCTCCGGGTGACAGCCGCGCCTCGGCAGGATCTGA 60
Db 1 GGGAAACAGCCTGCACGCGCTGGCTCCGGGTGACAGCCGCGCCTCGGCAGGATCTGA 60

QY	61	GTGATGAGACGTGTGTCCTCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG	120
DB	61		
QY	61	GTGATGAGACGTGTGTCCTCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG	120
DB	61		
QY	121	AAGCTGGACCGGCACCAAGAAGGCTGGCAGAAATGGGCGCTGGCTGATCTCTAGGCAATT	180
DB	121		
QY	121	AAGCTGGACCGGCACCAAGAAGGCTGGCAGAAATGGGCGCTGGCTGATCTCTAGGCAATT	180
DB	121		
QY	181	GGCGCAGCAAGGAGGAGAGCCGCGAGCTTCTGGAGCAGAGCCGAGACGAGCAGATTCTG	240
DB	181		
QY	241	GAGTGCCTGAAACGGCCCCCTGAGCCCTAACCCGCTGGCCCCACTATGTCAGAGGCTGTG	300
DB	241		
QY	301	GGTGAGCCGCTGCTGCGGCACCCGGAAGCCAGCTCTTGCTGCTCAACTGCTCAACCTT	360
DB	301		
QY	361	TGGCCTGAGAGTGTGTTTGGCGCGCAGGACATCACCTATGTGCGGCTCTGTCTGGAAGT	420
DB	361		
QY	421	GGGGGTAGAGGAGAAGTTTCATGACATGCTGTGGGCAATGGTCCAGTGTGGGCTTGGT	480
DB	421		
QY	481	CTGTGTCCCGCTCTCTAGGCTCAGCAGGACCATGCGCTGGAGCGCTATGGCGCGCGCG	540
DB	481		
QY	541	GCCCTTCATCTGGGCACATGCTCTGGGCATCTGCTGAGCCTCTTTCTCATCCCAAGGC	600
DB	541		
QY	601	CGGCTGGCTAGCAGGGCTGCTGTGCGCGGATCCAGGCGCTTGAGCTGGGCACTGCTCAT	660
DB	601		
QY	661	CCTGGGCTGGGGCTGCTGGGACTTCTGTGGCAGGTGCTTCACTCCACTGGAGGCGCT	720
DB	661		
QY	721	GCTCTCTGACCTCTTCGCGGACCCGAGACCACTGTGCGCAGGCTTACTCTGTCTATGCTT	780
DB	721		
QY	781	CATGATCAGTCTTGGGGCTGCTGGGTACTCTCTGCTGCCATTGACTGGGACACCAG	840
DB	781		
QY	841	TGCCCTGGCCCCCTTACTGGGCACCAGGAGGAGTGCTCTTTGGGCTGTCTCAACCTCAT	900
DB	841		
QY	901	CTTCTCTCACTGCTGAGAGCCACATGCTGGTGGCTGAGAGGCAAGCGCTGGGCCCCAC	960
DB	901		
QY	961	CGAGCCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCCACTGTGTCATGCGGGC	1020
DB	961		
QY	1021	CCGCTTGGCTTTCGGAACCTGGGCGGCTCTCTTCTCCCGGCTGCACAGCTGTGCTGCCG	1080
DB	1021		
QY	1081	CATGCCCGCACCTCTGGCCCGGCTCTTGTGGCTGAGCTGTGACGTGGATGGCACTCAT	1140
DB	1081		

Qy	1141	GACCTTCACCGTGTGTTTATACAGGATTTCTGTGGCGAGGGGCTGTATACAGGGCGTGTGCCAG	1200
Db	1141	GACCTTCACCGTGTGTTTATACAGGATTTCTGTGGCGAGGGGCTGTATACAGGGCGTGTGCCAG	1200
Qy	1201	AGCTGAGCCGGGCACCGAGGCCCGGAGACACTATGATGAGGGCTTCCGATGGCAGCCT	1260
Db	1201	AGCTGAGCCGGGCACCGAGGCCCGGAGACACTATGATGAGGGCTTCCGATGGCAGCCT	1260
Qy	1261	GGGGCTGTTCTGTGAGTGCGCCATCTCCCTGGTCTTCTCTCTGCTCATGAGCCGGGTGGT	1320
Db	1261	GGGGCTGTTCTGTGAGTGCGCCATCTCCCTGGTCTTCTCTCTGCTCATGAGCCGGGTGGT	1320
Qy	1321	GCAGCGATTCCGGCACTCGAGCAGTCTAATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC	1380
Db	1321	GCAGCGATTCCGGCACTCGAGCAGTCTAATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC	1380
Qy	1381	CGGTGCCACATGCTGTCTCCACAGTGTGGCCGTGGTGACAGCTTACGCCGCCCTCACCGG	1440
Db	1381	CGGTGCCACATGCTGTCTCCACAGTGTGGCCGTGGTGACAGCTTACGCCGCCCTCACCGG	1440
Qy	1441	GTTTCACCTTCTCAGCCCTGCAGATCTGCCCTTACACACTGGCCCTCCCTCTACCAACCGGGA	1500
Db	1441	GTTTCACCTTCTCAGCCCTGCAGATCTGCCCTTACACACTGGCCCTCCCTCTACCAACCGGGA	1500
Qy	1501	GAAGCAGGTGTTCTTGCCCAAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGACAG	1560
Db	1501	GAAGCAGGTGTTCTTGCCCAAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGACAG	1560
Qy	1561	CCTGATGACAGCTTCTTGCCAGGCCCTAAGCCTTGAGCTCCCTTCCCTAATGGACACGT	1620
Db	1561	CCTGATGACAGCTTCTTGCCAGGCCCTAAGCCTTGAGCTCCCTTCCCTAATGGACACGT	1620
Qy	1621	GGGTGCTTGGAGGACAGTGGCTGTCTCCACCTCCACCCCGCTCTGTGGGGCCCTCTGCCCTG	1680
Db	1621	GGGTGCTTGGAGGACAGTGGCTGTCTCCACCTCCACCCCGCTCTGTGGGGCCCTCTGCCCTG	1680
Qy	1681	TGATGTCTCCGTACGTGTGTTGGTGGGTGAGCCACCGAGGCCAGGGTGTGTTCCGGGCCG	1740
Db	1681	TGATGTCTCCGTACGTGTGTTGGTGGGTGAGCCACCGAGGCCAGGGTGTGTTCCGGGCCG	1740
Qy	1741	GGGCACTGTGCTGGAACCTCGCCATCTCTGATATGTGCTTCTGCTGCCAGTGTGGCCCC	1800
Db	1741	GGGCACTGTGCTGGAACCTCGCCATCTCTGATATGTGCTTCTGCTGCCAGTGTGGCCCC	1800
Qy	1801	ATCCCTGTTTATGGGCTCCATCTGCCAGCTCAGCCAGTCTGTACACTGCCTATATGTGTCT	1860
Db	1801	ATCCCTGTTTATGGGCTCCATCTGCCAGCTCAGCCAGTCTGTACACTGCCTATATGTGTCT	1860
Qy	1861	TGCCGAGGCTGGGTCTGTGTCGCCATTTACTTTGTGTACACAGGTAGTATTTGACAAGAG	1920
Db	1861	TGCCGAGGCTGGGTCTGTGTCGCCATTTACTTTGTGTACACAGGTAGTATTTGACAAGAG	1920
Qy	1921	CGACTTTGGCCAAATACCTCAGCGTAGAAAACTTCCAGCAATTTGGGGTGGAGGGCCTGCCT	1980
Db	1921	CGACTTTGGCCAAATACCTCAGCGTAGAAAACTTCCAGCAATTTGGGGTGGAGGGCCTGCCT	1980
Qy	1981	CATCTGGTCCAGCTCCCGCTCCTGTTAGCCCCATGGGGCTGCCCGGGCTGGCCGCCAGT	2040
Db	1981	CATCTGGTCCAGCTCCCGCTCCTGTTAGCCCCATGGGGCTGCCCGGGCTGGCCGCCAGT	2040
Qy	2041	TTCTGTGTGTCCAAAGTAATGTGGTCTCTGTGTGCACCCCTGTGTCTGTGAGGTGCGTA	2100
Db	2041	TTCTGTGTGTCCAAAGTAATGTGGTCTCTGTGTGCACCCCTGTGTCTGTGAGGTGCGTA	2100
Qy	2101	GCTGCACAGTGTGGGGCTGGGGCGTCCCTCTCTCTCTCCCCAGTCTCTAGGGCTGCCCTG	2160
Db	2101	GCTGCACAGTGTGGGGCTGGGGCGTCCCTCTCTCTCTCCCCAGTCTCTAGGGCTGCCCTG	2160
Qy	2161	ACTGGAGGCCCTTCCAGGGGGTTTCACTGTGACATTTATACAGGGAGCCAGAGGGCTCC	2220
Db	2161	ACTGGAGGCCCTTCCAGGGGGTTTCACTGTGACATTTATACAGGGAGCCAGAGGGCTCC	2220
Qy	2221	ATGCACCTGGAATGCGGGGACTCTGTCAGGTGGGATTTATCCCAAGGCTCAGGGTTAAACAGCTAGC	2280

Db 2221 ATGCACCTGGAAATGGGGGACTCTGACGGTGAATACCCAGGCTCAGGGTTAACAGCTAGC 2280
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2281 CTCCTAGTTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAATAAAGTCAAGTCAAGCTG 2340
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2281 CTCCTAGTTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAATAAAGTCAAGTCAAGCTG 2340
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2341 GTTTCCCATCTTAAGCCCTTAACCTGCAGCTTCGTTTAAATGATAGCTCTTGCATGGGAG 2400
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2341 GTTTCCCATCTTAAGCCCTTAACCTGCAGCTTCGTTTAAATGATAGCTCTTGCATGGGAG 2400
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2401 TTTCTAGATGAACACCTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAAGA 2460
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2401 TTTCTAGATGAACACCTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAAGA 2460
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2461 GTCTGAGGGGCAACACAGAGAACCCAGTCCCTCAGCCACACAGCAGCTGCTTTTGGCT 2520
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2461 GTCTGAGGGGCAACACAGAGAACCCAGTCCCTCAGCCACACAGCAGCTGCTTTTGGCT 2520
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTTGGTCTTCTGTGCCCATCA 2580
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTTGGTCTTCTGTGCCCATCA 2580
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2581 CAGAGACACAGGCAATTAATATTTAACTTATTTTAAACAAAGTAGAGGGAATCCAT 2640
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2581 CAGAGACACAGGCAATTAATATTTAACTTATTTTAAACAAAGTAGAGGGAATCCAT 2640
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2641 TGCTAGCTTTCTGCTGTTGCTGCTAATATTTGGTAGGTAGGGTGGGGATCCCAACATCA 2700
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2641 TGCTAGCTTTCTGCTGTTGCTGCTAATATTTGGTAGGTAGGGTGGGGATCCCAACATCA 2700
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2701 GGTCCCTGAGATAGCTGGTCAATGGGCTGATCATTCAGCAATCTTCTCTCTCGGGT 2760
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2701 GGTCCCTGAGATAGCTGGTCAATGGGCTGATCATTCAGCAATCTTCTCTCTCGGGT 2760
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2761 CTGCCCCCAGAAATGCTTAACCCAGGACCTTTGGAATTTCTACTCATCCCAATGATAAT 2820
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2761 CTGCCCCCAGAAATGCTTAACCCAGGACCTTTGGAATTTCTACTCATCCCAATGATAAT 2820
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2821 TCCAAATGCTTTACCAAGGTTAGGGTGTGTAAGGAGGTAGAGGTTGGGCTTCAGGT 2880
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2821 TCCAAATGCTTTACCAAGGTTAGGGTGTGTAAGGAGGTAGAGGTTGGGCTTCAGGT 2880
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2881 CTCAAGGCTTCCCTAACACCCCTCTTCTCTGGCCAGCTGCTGTTCCGCCACTTCCA 2940
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2881 CTCAAGGCTTCCCTAACACCCCTCTTCTCTGGCCAGCTGCTGTTCCGCCACTTCCA 2940
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3001 CCCAATTTCCCTTACCCCAACTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3060
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3001 CCCAATTTCCCTTACCCCAACTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3060
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3061 GCAGGACAGAGACAAAGTGGGTTTCCCAAGCTTTCATCTCAGCCCCCAGAGT 3120
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3061 GCAGGACAGAGACAAAGTGGGTTTCCCAAGCTTTCATCTCAGCCCCCAGAGT 3120
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3121 ATATCTGTGTTGGGAATCTCAACAGAACTCAGAGCAACCCCTGCTCAGCTAAGG 3180
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3121 ATATCTGTGTTGGGAATCTCAACAGAACTCAGAGCAACCCCTGCTCAGCTAAGG 3180
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTCCGTTTGCATATATGCTTATTTATT 3240
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTCCGTTTGCATATATGCTTATTTATT 3240
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3241 TAGGGGGTGAATTTTATATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3241 TAGGGGGTGAATTTTATATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3301 AAATTAAGGCTTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db 3301 AAATTAAGGCTTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3361 AA 3410
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db 3361 AA 3410
Qy ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
RESULT 2
US-09-030-607-110
; Sequence 110, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,352
; REFERENCE/DOCKET NUMBER: 210121.42703
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-030-607-110
Query Match 100.0%; Score 3409.6; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGAAACAGGCTGACACGCGCTGGCTCCGGGTGACAGCCGCGCGCTCGGCAGGATCTGA 60
Db 1 GGGAAACAGGCTGACACGCGCTGGCTCCGGGTGACAGCCGCGCGCTCGGCAGGATCTGA 60
Qy 61 GTGATGAGAGCTGTCCCACTAGGCTGCCCAACAGCAGCAGGCTGTGAGCATGGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTAGGCTGCCCAACAGCAGCAGGCTGTGAGCATGGGCTGAG 120
Qy 121 AAGCTGACCGGACCAAAAGGGCTGGCAGAAATGGGCGCTGATTCCTACGACGTT 180
Db 121 AAGCTGACCGGACCAAAAGGGCTGGCAGAAATGGGCGCTGATTCCTACGACGTT 180
Qy 181 GGGCGGACGACGAGGAGAGCGCGCTGCTGAGCAGAGCCGAGAGCCGAGAGCTTCTG 240
Db 181 GGGCGGACGACGAGGAGAGCGCGCTGCTGAGCAGAGCCGAGAGCTTCTGAGCAGAGCTTCTG 240
Qy 241 GAGTGTCTGAACGGCCCTTGAGCCCTTACCGCTCGGCTGAGCCCACTATGTGTCAGAGGCTGTG 300
Db 241 GAGTGTCTGAACGGCCCTTGAGCCCTTACCGCTCGGCTGAGCCCACTATGTGTCAGAGGCTGTG 300

QY	301	GGTAGCCGCTGCTGCGGCAACCGAAAGCCAGCTCTTGTGTGTCATCTGCTAACTT	360	QY	1381	CGTGCCACATGCTCTGTCCCAAGTGTGGCCGTGTGTGAAGCTTCAGCGGCCCTCACCGG	1440
DB	301	GGTAGCCGCTGCTGCGGCAACCGAAAGCCAGCTCTTGTGTGTCATCTGCTAACTT	360	DB	1381	CGTGCCACATGCTCTGTCCCAAGTGTGGCCGTGTGTGAAGCTTCAGCGGCCCTCACCGG	1440
QY	361	TGGCCTGGAGGTGTGTTTGGCCGAGGCAATCACTATGTGCGGCTCTGCTGCTGAAGT	420	QY	1441	GTTCACTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCGGA	1500
DB	361	TGGCCTGGAGGTGTGTTTGGCCGAGGCAATCACTATGTGCGGCTCTGCTGCTGAAGT	420	DB	1441	GTTCACTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCGGA	1500
QY	421	GGGGGTAGAGGAAGTTCATGACCATGGTGTGCGGCAATGGTCCAGTGTGGGCTGGT	480	QY	1501	GAAGCAGGTGTTCTGTGCCAAATACCGAGGGGACACTGAGAGTGTAGCAGTGAAGACAG	1560
DB	421	GGGGGTAGAGGAAGTTCATGACCATGGTGTGCGGCAATGGTCCAGTGTGGGCTGGT	480	DB	1501	GAAGCAGGTGTTCTGTGCCAAATACCGAGGGGACACTGAGAGTGTAGCAGTGAAGACAG	1560
QY	481	CTGTCTCCGCTCTTAGGCTCAGCCAGTGAACCACTGGCGTGAACCTATGGCCGCGCG	540	QY	1561	CCTGATGACAGCTTCTGTGCCAGGCCCTTAAGCTTGAGACTCCCTTCCCTTAATGGAACGT	1620
DB	481	CTGTCTCCGCTCTTAGGCTCAGCCAGTGAACCACTGGCGTGAACCTATGGCCGCGCG	540	DB	1561	CCTGATGACAGCTTCTGTGCCAGGCCCTTAAGCTTGAGACTCCCTTCCCTTAATGGAACGT	1620
QY	541	GCCCTTCATCTGGGCACTGTCTTGGGCATCTCTGCTGAGCCCTTCTCATCCCAAGGCG	600	QY	1621	GGGTGCTGGAGGCAAGTGGCCCTGCCACCTCCACCGCGCTCTGCGGGGCTCTGCCCTG	1680
DB	541	GCCCTTCATCTGGGCACTGTCTTGGGCATCTCTGCTGAGCCCTTCTCATCCCAAGGCG	600	DB	1621	GGGTGCTGGAGGCAAGTGGCCCTGCCACCTCCACCGCGCTCTGCGGGGCTCTGCCCTG	1680
QY	601	CGGCTGGCTAGCAGGCTGTCTGCGCCGATCCAGGCCCTGGAGCTGGCACTGCTCAT	660	QY	1681	TGATGTCTCCGTACGTGTGGTGAAGCCCAAGGCGGAGGGTGGTTCGGGGCGG	1740
DB	601	CGGCTGGCTAGCAGGCTGTCTGCGCCGATCCAGGCCCTGGAGCTGGCACTGCTCAT	660	DB	1681	TGATGTCTCCGTACGTGTGGTGAAGCCCAAGGCGGAGGGTGGTTCGGGGCGG	1740
QY	661	CCTGGGCGTGGGCTGTGGAATCTGTGGCAGGTGTCTTCACTCACTGGAGGCCCT	720	QY	1741	GGGATCTGTGGAACCTCGCCATCTGGATAGTGCCTTCTCTGTCTCCAGGTGGCCCC	1800
DB	661	CCTGGGCGTGGGCTGTGGAATCTGTGGCAGGTGTCTTCACTCACTGGAGGCCCT	720	DB	1741	GGGATCTGTGGAACCTCGCCATCTGGATAGTGCCTTCTCTGTCTCCAGGTGGCCCC	1800
QY	721	GCTCTGTACCTTTCGGGACCCGACCACTGTGCCAGGCTACTCTGTATGCTT	780	QY	1801	ATCCCTGTTTATGGCTCCATTTGTCGCACTTACTCTGTACACAGGTAGTATTTGACAAG	1860
DB	721	GCTCTGTACCTTTCGGGACCCGACCACTGTGCCAGGCTACTCTGTATGCTT	780	DB	1801	ATCCCTGTTTATGGCTCCATTTGTCGCACTTACTCTGTACACAGGTAGTATTTGACAAG	1860
QY	781	CATGATCAGTCTTGGGGCTGCTGGCTACCTCTGCTGCTGCTGCTGCTGCTGCTGCT	840	QY	1861	TGCGCAGGCTGGTCTGGTGGCAATTAATCTTGTCTACACAGGTAGTATTTGACAAG	1920
DB	781	CATGATCAGTCTTGGGGCTGCTGGCTACCTCTGCTGCTGCTGCTGCTGCTGCTGCT	840	DB	1861	TGCGCAGGCTGGTCTGGTGGCAATTAATCTTGTCTACACAGGTAGTATTTGACAAG	1920
QY	841	TGCGCTGGCCCTTACCTGGGACCCAGGAGGTGCTCTTGTGGCTGCTCACTCAT	900	QY	1921	CGACTTGGCCAAATACCTCAGCGTAGAAATCTTCCAGCAATTTGGGGTGGAGGCCCTGCT	1980
DB	841	TGCGCTGGCCCTTACCTGGGACCCAGGAGGTGCTCTTGTGGCTGCTCACTCAT	900	DB	1921	CGACTTGGCCAAATACCTCAGCGTAGAAATCTTCCAGCAATTTGGGGTGGAGGCCCTGCT	1980
QY	901	CTTCTCCTACCTGTAGACGACCACTGCTGGTGTGCTGAGGAGGCGCTGGGCCCCAC	960	QY	1981	CAGTGGGTCCAGCTCCCGCTCTGTTAGCCCAATGGGGTGGCGGCTGGCCGCGAGT	2040
DB	901	CTTCTCCTACCTGTAGACGACCACTGCTGGTGTGCTGAGGAGGCGCTGGGCCCCAC	960	DB	1981	CAGTGGGTCCAGCTCCCGCTCTGTTAGCCCAATGGGGTGGCGGCTGGCCGCGAGT	2040
QY	961	CGAGCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCACTGCTGTCATGCGGGC	1020	QY	2041	TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCACCTGTGCTGTGAGGTGCGTA	2100
DB	961	CGAGCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCACTGCTGTCATGCGGGC	1020	DB	2041	TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCACCTGTGCTGTGAGGTGCGTA	2100
QY	1021	CCGCTTGGCTTTCGGAACTTGGGCGCCCTGCTTCCCGGCTGCAACCAAGCTGTGCTCG	1080	QY	2101	GCTGCAAGCTTGGGGGCTGGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2160
DB	1021	CCGCTTGGCTTTCGGAACTTGGGCGCCCTGCTTCCCGGCTGCAACCAAGCTGTGCTCG	1080	DB	2101	GCTGCAAGCTTGGGGGCTGGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2160
QY	1081	CATGCCCCGACCTCGCGCGCTCTTGTGGCTGAGCTGTGCTGCTGCTGCTGCTGCT	1140	QY	2161	ACTGAGGCTTCCAAAGGGGTTTCACTGCTGCACTTATACAGGGAGGCGCAGAGGGCTCC	2220
DB	1081	CATGCCCCGACCTCGCGCGCTCTTGTGGCTGAGCTGTGCTGCTGCTGCTGCTGCT	1140	DB	2161	ACTGAGGCTTCCAAAGGGGTTTCACTGCTGCACTTATACAGGGAGGCGCAGAGGGCTCC	2220
QY	1141	GACCTTCACTGCTTATACAGGATTTGTGGGCGAGGGCTGTACAGGGGCTGCCAG	1200	QY	2221	ATGCACTGGAATGGGGGCTCTGAGGTGATTAACAGGCTCAGGGTAAACAGCTAGC	2280
DB	1141	GACCTTCACTGCTTATACAGGATTTGTGGGCGAGGGCTGTACAGGGGCTGCCAG	1200	DB	2221	ATGCACTGGAATGGGGGCTCTGAGGTGATTAACAGGCTCAGGGTAAACAGCTAGC	2280
QY	1201	AGCTAGCCGGGACCGAGGCCCGGAGACATATGATGAAGCGTTCCGATGGGAGCCT	1260	QY	2281	CTCTAGTTGAGACACACTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACTCTG	2340
DB	1201	AGCTAGCCGGGACCGAGGCCCGGAGACATATGATGAAGCGTTCCGATGGGAGCCT	1260	DB	2281	CTCTAGTTGAGACACACTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACTCTG	2340
QY	1261	GGGGCTGTCTGAGTGGGCACTCTCCCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1320	QY	2341	GTTTCCCATCTTAAGCCCTTAACTGCACTGCTGTTTAAATGATGCTCTTGTGATGGGAG	2400
DB	1261	GGGGCTGTCTGAGTGGGCACTCTCCCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	1320	DB	2341	GTTTCCCATCTTAAGCCCTTAACTGCACTGCTGTTTAAATGATGCTCTTGTGATGGGAG	2400
QY	1321	GCAGCGATTCGCACTCGAGCAGTCTATTTGGCCAGTGTGGGAGCTTCCCTGTGGCTGC	1380	QY	2401	TTTCTAGGATGAACACTCTCTCCATGGGATTTGAACATATGATCTTATTTGTAGGGGAGA	2460
DB	1321	GCAGCGATTCGCACTCGAGCAGTCTATTTGGCCAGTGTGGGAGCTTCCCTGTGGCTGC	1380	DB	2401	TTTCTAGGATGAACACTCTCTCCATGGGATTTGAACATATGATCTTATTTGTAGGGGAGA	2460
				QY	2461	GTCTGGGGGCAACACACAAGAACCGGTCCCTCAGCCCCACAGCCTGCTTTTGTCT	2520

Db 721 |||||GCTCTGTACCTCTTTCCGGGACCCGGACCACTGTGCGCAGGCTACTGTGCTATGSCCTT 780

Qy 781 CATGATCAGTCTTTGGGGGCTGCTGGGCTACCTCTGCTGCTGCATTTGACTGGGACACCAG 840

Db 781 |||||CATGATCAGTCTTTGGGGGCTGCTGGGCTACCTCTGCTGCTGCATTTGACTGGGACACCAG 840

Qy 841 TGCCCTGGCCCTTACCTTGGGCACCCAGGAGGAGTGCCCTCTTTGGGCTGCTCACCCTCAT 900

Db 841 TGCCCTGGCCCTTACCTTGGGCACCCAGGAGGAGTGCCCTCTTTGGGCTGCTCACCCTCAT 900

Qy 901 CTTCTCCTCAGCTGCTAGACGCACACTGCTGTGTGCTGAGAGGAGCGCTGGGGCCAC 960

Db 901 CTTCTCCTCAGCTGCTAGACGCACACTGCTGTGTGCTGAGAGGAGCGCTGGGGCCAC 960

Qy 961 CGAGCCAGCAGAGGCTGTGGGCCCCCTCTTTGTCGCCCACTGCTGTCATGCGGGC 1020

Db 961 CGAGCCAGCAGAGGCTGTGGGCCCCCTCTTTGTCGCCCACTGCTGTCATGCGGGC 1020

Qy 1021 CCGCTTGGCTTTCCGGAACCTTGGGCGCCCTGCTTCCCGGCTGCAACCACTGCTGCTGCG 1080

Db 1021 CCGCTTGGCTTTCCGGAACCTTGGGCGCCCTGCTTCCCGGCTGCAACCACTGCTGCTGCG 1080

Qy 1081 CATGCCCGCACCTTGGGCGCCCTGCTTCCCGGCTGCAACCACTGCTGCTGCTGCTGCTG 1140

Db 1081 CATGCCCGCACCTTGGGCGCCCTGCTTCCCGGCTGCAACCACTGCTGCTGCTGCTGCTG 1140

Qy 1141 GACCTTACGCTGTTTACAGGATTTCTGGGCGAGGGCTGTACCAAGGCGTGCSCCAG 1200

Db 1141 GACCTTACGCTGTTTACAGGATTTCTGGGCGAGGGCTGTACCAAGGCGTGCSCCAG 1200

Qy 1201 AGCTGAGCGCGGCACCGAGGCGCGGAGACACTATGATGAAGCGCTTCGGATGGGCGCCT 1260

Db 1201 AGCTGAGCGCGGCACCGAGGCGCGGAGACACTATGATGAAGCGCTTCGGATGGGCGCCT 1260

Qy 1261 GGGGCTGTCTGCTGAGTGCGGCATCTCCCTGGTCTTCTCTCTGCTGCTGCTGCTGCTGCT 1320

Db 1261 GGGGCTGTCTGCTGAGTGCGGCATCTCCCTGGTCTTCTCTCTGCTGCTGCTGCTGCTGCT 1320

Qy 1321 CGAGCGATTCGSCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC 1380

Db 1321 CGAGCGATTCGSCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC 1380

Qy 1381 CGGTGCCACATGCTCTGCCACAGTGTGGCGTGTGGTGAAGCTTCAGCGCGCCCTCACCGG 1440

Db 1381 CGGTGCCACATGCTCTGCCACAGTGTGGCGTGTGGTGAAGCTTCAGCGCGCCCTCACCGG 1440

Qy 1441 GTTCACTTCTCAGCCCTGCAGATCTGCGCTTACACACTGCGCTCCCTTACCAACCGGGA 1500

Db 1441 GTTCACTTCTCAGCCCTGCAGATCTGCGCTTACACACTGCGCTCCCTTACCAACCGGGA 1500

Qy 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGAGGTGTAGCAGTGAAGACAG 1560

Db 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGAGGTGTAGCAGTGAAGACAG 1560

Qy 1561 CCGTATGACCACTTCTGCGCCAGGCGCTTAAGCCTGAGCTCCCTTCCCTTAATGGAACAGT 1620

Db 1561 CCGTATGACCACTTCTGCGCCAGGCGCTTAAGCCTGAGCTCCCTTCCCTTAATGGAACAGT 1620

Qy 1621 GGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGGCTCTGCGGGGCTCTGCTG 1680

Db 1621 GGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGGCTCTGCGGGGCTCTGCTG 1680

Qy 1681 TGATGCTCCGTGCTGCTGCTGGGTGAGCCACCGAGGCGAGGCTGCTGCGGGCG 1740

Db 1681 TGATGCTCCGTGCTGCTGCTGGGTGAGCCACCGAGGCGAGGCTGCTGCGGGCG 1740

Qy 1741 GGGCATCTGCTGAGACCTCGCCATCTTGGATAGTCTTCTGCTGCTCCAGGTGGCCCC 1800

Db 1741 GGGCATCTGCTGAGACCTCGCCATCTTGGATAGTCTTCTGCTGCTCCAGGTGGCCCC 1800

Qy 1801 ATCCCTGTTTATGGGCTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1860

Db 1801 ATCCCTGTTTATGGGCTCCATTTGTCCAGCTCAGCCAGTCTGTCACTGCTATATGGTGT 1860

Qy 1861 TGCCGAGGCTCTGGTCTGGTGCACATTTACTTTGTACACAGGTAGTATTTGACAAGAG 1920

Db 1861 TGCCGAGGCTCTGGTCTGGTGCACATTTACTTTGTCTACACAGGTAGTATTTGACAAGAG 1920

Qy 1921 CGACTTGGCCAAATACCTCAGCGTAGAAATTTCCAGACATTTGGGGTGGAGGCTGTGCT 1980

Db 1921 CGACTTGGCCAAATACCTCAGCGTAGAAATTTCCAGACATTTGGGGTGGAGGCTGTGCT 1980

Qy 1981 CACTGGGTCCAGCTCCCGGCTCTGTAGCCCATTTGGGGCTGCGGGCTGGCGCCAGT 2040

Db 1981 CACTGGGTCCAGCTCCCGGCTCTGTGTAGCCCATTTGGGGCTGCGGGCTGGCGCCAGT 2040

Qy 2041 TTCTGTTGCTGCCAAAGTAATGTGCTCTGTGCTGCCACCTGTGCTGCTGCTGCTGCTGCTG 2100

Db 2041 TTCTGTTGCTGCCAAAGTAATGTGCTCTGTGCTGCCACCTGTGCTGCTGCTGCTGCTGCTG 2100

Qy 2101 GCTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160

Db 2101 GCTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160

Qy 2161 ACTGAGGCTTCCAGGGGGTTCAGTCTGGAATTATACAGGGAGGCGCAGAGGGCTCC 2220

Db 2161 ACTGAGGCTTCCAGGGGGTTCAGTCTGGAATTATACAGGGAGGCGCAGAGGGCTCC 2220

Qy 2221 ATGCACCTGGAATCGGGGACTCTGCAGGTGATTTACCCAGGCTCAGGGGTAAACAGCTAGC 2280

Db 2221 ATGCACCTGGAATCGGGGACTCTGCAGGTGATTTACCCAGGCTCAGGGGTAAACAGCTAGC 2280

Qy 2281 CTCTAGTTGAGACACACCTTACAGAAAGGTTTTGGGAGCTGAATAAATCACTCAGTCACTG 2340

Db 2281 CTCTAGTTGAGACACACCTTACAGAAAGGTTTTGGGAGCTGAATAAATCACTCAGTCACTG 2340

Qy 2341 GTTTCCCATCTCTAAGCCCCCTTAACCTGCAGCTTCGTTTATGTAGCTCTTGCATGGGAG 2400

Db 2341 GTTTCCCATCTCTAAGCCCCCTTAACCTGCAGCTTCGTTTATGTAGCTCTTGCATGGGAG 2400

Qy 2401 TTTCTAGGATGAACACACTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460

Db 2401 TTTCTAGGATGAACACACTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460

Qy 2461 GTCTGAGGGGCAACACACAAAGAACAGGTCCTCAGCCCAACAGCACTGCTTTTGTGT 2520

Db 2461 GTCTGAGGGGCAACACACAAAGAACAGGTCCTCAGCCCAACAGCACTGCTTTTGTGT 2520

Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGCTGCTCTCTCTCTCTCTCTCTCTCT 2580

Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGCTGCTCTCTCTCTCTCTCTCTCTCT 2580

Qy 2581 CAGAGACACAGGCAATTTAAATATTTTAACTTATTTTAAACAAAGTAGAAGGGAATCCAT 2640

Db 2581 CAGAGACACAGGCAATTTAAATATTTTAACTTATTTTAAACAAAGTAGAAGGGAATCCAT 2640

Qy 2641 TGCTAGCTTTTCTGTGTTGCTGTCTAATATTTGGGTAGGGTGGGGATTCGCCAACATCA 2700

Db 2641 TGCTAGCTTTTCTGTGTTGCTGTCTAATATTTGGGTAGGGTGGGGATTCGCCAACATCA 2700

Qy 2701 GGTCCTCTGAGATAGCTGGTCAATTTGGGCTGATTCAGCAGAACTTCTCTCTCTCTCTCTCT 2760

Db 2701 GGTCCTCTGAGATAGCTGGTCAATTTGGGCTGATTCAGCAGAACTTCTCTCTCTCTCTCTCT 2760

Qy 2761 CTGGCCCCCCCCAAATGTCCTAACCCAGGACCTTGGAAATTTTACTCATCCCCAAATGATAAT 2820

Db 2761 CTGGCCCCCCCCAAATGTCCTAACCCAGGACCTTGGAAATTTTACTCATCCCCAAATGATAAT 2820

Qy 2821 TCCAAATGCTGTTACCCAAAGGTTAGGGTGTGAAAGAGGTAGAGGTGGGGCTTCAGGT 2880

Db 2821 TCCAAATGCTGTTACCCAAAGGTTAGGGTGTGAAAGAGGTAGAGGTGGGGCTTCAGGT 2880

Qy 2881 CTCAAGGCTTCCCTTAACCCACCTCTCTCTCTGCGCCAGCTGCTTCCCCCCTTCCA 2940

Db 2881 CTCAAGGCTTCCCTTAACCCACCTCTCTCTCTGCGCCAGCTGCTTCCCCCCTTCCA 2940

```
Qy 2941 CTCCCTCTACTCTCTCTAGACTGGGCTGATGAGGCACCTGCCAAATTTCCCTACC 3000
Db 2941 CTCCCTCTACTCTCTCTAGACTGGGCTGATGAGGCACCTGCCAAATTTCCCTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAACCAAGCTCCCAACCTTTGGAGTACT 3060
Db 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAACCAAGCTCCCAACCTTTGGAGTACT 3060
Qy 3061 GCAGGACAGAGACAGAAAGTGGGTTTCCCAAGCTTTGTCATCTCAGCCCCAGAGT 3120
Db 3061 GCAGGACAGAGACAGAAAGTGGGTTTCCCAAGCTTTGTCATCTCAGCCCCAGAGT 3120
Qy 3121 ATATCTGTGTTGGGAATCTCACACAGAACTCAGGAGCACCCCTGCCTGAGCTAAGG 3180
Db 3121 ATATCTGTGTTGGGAATCTCACACAGAACTCAGGAGCACCCCTGCCTGAGCTAAGG 3180
Qy 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGGCGTTTGCAATAATGTCGTTATTATT 3240
Db 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGGCGTTTGCAATAATGTCGTTATTATT 3240
Qy 3241 TAGCGGGGTGAATATTTATATGTTTAAATGAGCAATCAGAGTATAATGTTATGTTGACA 3300
Db 3241 TAGCGGGGTGAATATTTATATGTTTAAATGAGCAATCAGAGTATAATGTTATGTTGACA 3300
Qy 3301 AAATTTAAAGGCTTCTTATATGTTTAAATGAGCAATCAGAGTATAATGTTATGTTGACA 3360
Db 3301 AAATTTAAAGGCTTCTTATATGTTTAAATGAGCAATCAGAGTATAATGTTATGTTGACA 3360
Qy 3361 AAAAAAARAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3410
Db 3361 AAAAAAARAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3410
```

RESULT 4

```
US-09-352-616A-110
; Sequence 110, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C8
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110
```

```
Query Match 100.0%; Score 3409.6; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGAAACAGCCTGCACCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACAGCCTGCACCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Qy 61 GTGATGAGACGTGTCCCACTCAGGTGCCCAACAGCAGCAGGTGTGAGCATGGGCTGAG 120
Db 61 GTGATGAGACGTGTCCCACTCAGGTGCCCAACAGCAGCAGGTGTGAGCATGGGCTGAG 120
Qy 121 AAGCTGACCGGCACCAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180
Db 121 AAGCTGACCGGCACCAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180
```

```
Qy 181 GGGCGCAGCAGGAGAGAGCGCCGACGCTTCTGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db 181 GGGCGCAGCAGGAGAGAGCGCCGACGCTTCTGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Qy 241 GAGTGCCCTGAACGGCCCCCTGAGCCCTTACCGCCCTGAGCCCACTATGTTCCAGAGGCTGTG 300
Db 241 GAGTGCCCTGAACGGCCCCCTGAGCCCTTACCGCCCTGAGCCCACTATGTTCCAGAGGCTGTG 300
Qy 301 GGTGAGCGCGCTGCTGGGCAACCGGAAGCCAGCTCTTGTGCTGCTCAACCTGCTAAACCTT 360
Db 301 GGTGAGCGCGCTGCTGGGCAACCGGAAGCCAGCTCTTGTGCTGCTCAACCTGCTAAACCTT 360
Qy 361 TGGCCTGAGAGGTGTGTTTGGCCGAGCATCACCTATGTGCGGCTCTGTGCTGCTGGAAGT 420
Db 361 TGGCCTGAGAGGTGTGTTTGGCCGAGCATCACCTATGTGCGGCTCTGTGCTGCTGGAAGT 420
Qy 421 GGGGTTAGAGAGAGAGTTTATGACCATGTTGGGCAATTTGGTCCAGTGTGAGGCTTGGT 480
Db 421 GGGGTTAGAGAGAGAGTTTATGACCATGTTGGGCAATTTGGTCCAGTGTGAGGCTTGGT 480
Qy 481 CTGTGTCCTCCCTCTTAGGCTCAGCAGTGAACCTGAGCGCTGAGCGCTATGSCCGCGCG 540
Db 481 CTGTGTCCTCCCTCTTAGGCTCAGCAGTGAACCTGAGCGCTGAGCGCTATGSCCGCGCG 540
Qy 541 GCCCTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGCGCTCTTCTCATCCCAAGGCG 600
Db 541 GCCCTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGCGCTCTTCTCATCCCAAGGCG 600
Qy 601 CGGCTGCTAGCAGGCTGCTGTGCGCGGATCCAGCGCTGAGAGTGGCACTGTGCTCAT 660
Db 601 CGGCTGCTAGCAGGCTGCTGTGCGCGGATCCAGCGCTGAGAGTGGCACTGTGCTCAT 660
Qy 661 CTTGGGCGTGGGCTGCTGAGCTTCTGTGGCGAGGTGCTTCACTCCAGTGGAGGCGCT 720
Db 661 CTTGGGCGTGGGCTGCTGAGCTTCTGTGGCGAGGTGCTTCACTCCAGTGGAGGCGCT 720
Qy 721 GCTCTCTGACCTCTTCCGGGACCCGAGCAGCTGTGCGCAGCGCTTACTGTGCTATGCTT 780
Db 721 GCTCTCTGACCTCTTCCGGGACCCGAGCAGCTGTGCGCAGCGCTTACTGTGCTATGCTT 780
Qy 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTTGACTGGGACACAG 840
Db 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTTGACTGGGACACAG 840
Qy 841 TGCCCTGGCCCCCTACTCTGGGCAACCGAGAGGAGTGCCTCTTGGGCTGCTCAGCCCTCAT 900
Db 841 TGCCCTGGCCCCCTACTCTGGGCAACCGAGAGGAGTGCCTCTTGGGCTGCTCAGCCCTCAT 900
Qy 901 CTTCTCCTCAGCTAGCAGCCACACTGTGTTGGCTGAGGAGGAGGAGTGCCTCTTGGGCTGCTCAGCCCTCAT 960
Db 901 CTTCTCCTCAGCTAGCAGCCACACTGTGTTGGCTGAGGAGGAGGAGTGCCTCTTGGGCTGCTCAGCCCTCAT 960
Qy 961 CGAGCCAGCAGAGAGGCTGTGCGCCCCCTCTTGTGCGCCCCCTCTTGTGCTGCTGCTGCGG 1020
Db 961 CGAGCCAGCAGAGAGGCTGTGCGCCCCCTCTTGTGCGCCCCCTCTTGTGCTGCTGCTGCGG 1020
Qy 1021 CCCTTGGCTTTCCGGAACCTGGGCGCGCTTCCCGGCTGCAACAGCTGTGCTGCGG 1080
Db 1021 CCCTTGGCTTTCCGGAACCTGGGCGCGCTTCCCGGCTGCAACAGCTGTGCTGCGG 1080
Qy 1081 CATGCCCCGACCTCTGCGCGGCTCTTCTGTTGGCTGAGCTGTGAGCTGGGCTGAGTGG 1140
Db 1081 CATGCCCCGACCTCTGCGCGGCTCTTCTGTTGGCTGAGCTGTGAGCTGGGCTGAGTGG 1140
Qy 1141 GACCTTCACGCTGTTTTTACACGGATTTCTGTTGGGCGAGGGGCTGTATGAGGCGGTGCC 1200
Db 1141 GACCTTCACGCTGTTTTTACACGGATTTCTGTTGGGCGAGGGGCTGTATGAGGCGGTGCC 1200
Qy 1201 AGCTGAGCGGGGACCGAGGCGCGGAGACACTATGATGAAAGGGGCTTCCGATGGGAGCCT 1260
Db 1201 AGCTGAGCGGGGACCGAGGCGCGGAGACACTATGATGAAAGGGGCTTCCGATGGGAGCCT 1260
Qy 1261 GGGGCTGTTCTCTGAGTGGCGCCATCTCCCTGGTCTTCTCTCTCTGCTCATGACCGGCTGGT 1320
```

Db 1261 ||||| GGGGCTGTTCTGTCAGTGGCCATCTCCCTGGTCTCTCTGTCATGGAACCGGCTGGT 1320
 Qy 1321 GCAGGGATTCCGACCTCCAGCAGTCTATTGCGCAGTGTGCGAGCTTTCCCTGTGGCTGC 1380
 Db 1321 ||||| GAGGGATTCCGACCTCCAGCAGTCTATTGCGCAGTGTGCGAGCTTTCCCTGTGGCTGC 1380
 Qy 1381 CGGTGCCACATGCTCTGTCGCCAGTGTGGCCGTGTGTCAGCTTCCAGCGGCCCTCACCGG 1440
 Db 1381 CGGTGCCACATGCTCTGTCGCCAGTGTGGCCGTGTGTCAGCTTCCAGCGGCCCTCACCGG 1440
 Qy 1441 GTTCACTTCTCAGCCCTCGAGATCCTGCTCCCTACACACTGGCCCTCCCTCTACCAACCGGA 1500
 Db 1441 GTTCACTTCTCAGCCCTCGAGATCCTGCTCCCTACACACTGGCCCTCCCTCTACCAACCGGA 1500
 Qy 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
 Db 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
 Qy 1561 CCTGATGACCAAGCTTCTGCGCCAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATAGCACAGT 1620
 Db 1561 CCTGATGACCAAGCTTCTGCGCCAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATAGCACAGT 1620
 Qy 1621 GGGTCTGGAAGCAGTGTGCTGCTCCACCTCCAGCGGTCTGCGGGGCTCTGCGCTG 1680
 Db 1621 GGGTCTGGAAGCAGTGTGCTGCTCCACCTCCAGCGGTCTGCGGGGCTCTGCGCTG 1680
 Qy 1681 TGATGCTCCCTGACGTGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGGCG 1740
 Db 1681 TGATGCTCCCTGACGTGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGGCG 1740
 Qy 1741 GGGCATCTGCTGACCTCGCCATCCTGGATGAGTCCCTTCTGCTGCTCCAGGTGGCCCC 1800
 Db 1741 GGGCATCTGCTGACCTCGCCATCCTGGATGAGTCCCTTCTGCTGCTCCAGGTGGCCCC 1800
 Qy 1801 ATCCCTGTTATGGGCTCAATGTCAGCTCAGCCAGTCTGTCACTGCTATATGCTGTC 1860
 Db 1801 ATCCCTGTTATGGGCTCAATGTCAGCTCAGCCAGTCTGTCACTGCTATATGCTGTC 1860
 Qy 1861 TGCCGACGCTGGGTCTGCTGCGCATTTCTGCTACAGAGTAGTATTTGACAGAG 1920
 Db 1861 TGCCGACGCTGGGTCTGCTGCGCATTTCTGCTACAGAGTAGTATTTGACAGAG 1920
 Qy 1921 CGACTTGCCCAATACTCAGCGTAGAAAATTTCCAGCACTTTGGGGTGGAGGCGCTGCT 1980
 Db 1921 CGACTTGCCCAATACTCAGCGTAGAAAATTTCCAGCACTTTGGGGTGGAGGCGCTGCT 1980
 Qy 1981 CACTGGGTCCAGCTCCCGCTCTCTGTTAGCCCAATGGGGTCCCGGCTGGCCGCTAGT 2040
 Db 1981 CACTGGGTCCAGCTCCCGCTCTCTGTTAGCCCAATGGGGTCCCGGCTGGCCGCTAGT 2040
 Qy 2041 TTCTGTTCTGCAAGTAATGAGTCTCTGCTGCAACCTGCTGCTGAGGTGCTGTA 2100
 Db 2041 TTCTGTTCTGCAAGTAATGAGTCTCTGCTGCAACCTGCTGCTGAGGTGCTGTA 2100
 Qy 2101 GCTGACAGCTGGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 Db 2101 GCTGACAGCTGGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 Qy 2161 ACTGAGGCTTCCAGGGGTTTCAGTCTGCACTTATACAGGAGGCCAGAGGGCTCC 2220
 Db 2161 ACTGAGGCTTCCAGGGGTTTCAGTCTGCACTTATACAGGAGGCCAGAGGGCTCC 2220
 Qy 2221 ATGCACTGGAATCGGGGACTCTGAGGTGGATTAACCGAGGCTCAGGGTTAACAGCTAGC 2280
 Db 2221 ATGCACTGGAATCGGGGACTCTGAGGTGGATTAACCGAGGCTCAGGGTTAACAGCTAGC 2280
 Qy 2281 CTCTAGTTGAGACACCTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
 Db 2281 CTCTAGTTGAGACACCTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
 Qy 2341 GTTCCCATCTCTAAGCCCTTAACCTGAGCTCGTTTAAATGATAGCTCTTGATGGGAG 2400

Db 2341 GTTCCCATCTCTAAGCCCTTAACCTGACGTTCTGTTTAAATGATAGCTCTTGATGGAG 2400
 Qy 2401 TTTCTAGATGAACACACTCTCTCCATGGATTGGAACATATGACTTATTGTTAGGGGAAGA 2460
 Db 2401 TTTCTAGATGAACACACTCTCTCCATGGATTGGAACATATGACTTATTGTTAGGGGAAGA 2460
 Qy 2461 GTCTGAGGGGCAACACACAGAACCCCTCAGCCCAACAGCACTGCTTTTGGT 2520
 Db 2461 GTCTGAGGGGCAACACACAGAACCCCTCAGCCCAACAGCACTGCTTTTGGT 2520
 Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTTGCTCTCTGTCGCACTCA 2580
 Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTTGCTCTCTGTCGCACTCA 2580
 Qy 2581 CAGAGACACAGGCAATTTAAATATTAACTTATTATTAACAAAAGTAGAAGGGAATCCAT 2640
 Db 2581 CAGAGACACAGGCAATTTAAATATTAACTTATTATTAACAAAAGTAGAAGGGAATCCAT 2640
 Qy 2641 TGCTAGCTTTTCTGTTGGTGTCTAATATTGGGTAGGGTGGGGATGCCCAACAATCA 2700
 Db 2641 TGCTAGCTTTTCTGTTGGTGTCTAATATTGGGTAGGGTGGGGATGCCCAACAATCA 2700
 Qy 2701 GGTCCCTGAGATAGCTGTCATTTGGGCTGATCATTTGCCAGAACTTTCTTCTCTGGGT 2760
 Db 2701 GGTCCCTGAGATAGCTGTCATTTGGGCTGATCATTTGCCAGAACTTTCTTCTCTGGGT 2760
 Qy 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTTGAAATTTCTACTCATCCCAAAATGATAAT 2820
 Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTTGAAATTTCTACTCATCCCAAAATGATAAT 2820
 Qy 2821 TCCAAATGCTTTACCCAAAGGTTAGGGTGTGAAAGGAGTAGAGGTGGGGTTCAGGT 2880
 Db 2821 TCCAAATGCTTTACCCAAAGGTTAGGGTGTGAAAGGAGTAGAGGTGGGGTTCAGGT 2880
 Qy 2881 CTGAACGGCTTCCCTAACCCACCTCTCTCTTTGGCCAGGCTGGTTCGCCCACTTCCA 2940
 Db 2881 CTGAACGGCTTCCCTAACCCACCTCTCTCTTTGGCCAGGCTGGTTCGCCCACTTCCA 2940
 Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGACCTGCCCAAAATTTCCCTTACC 3000
 Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGACCTGCCCAAAATTTCCCTTACC 3000
 Qy 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAAGCTTTGGAGCTACT 3060
 Db 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAAGCTTTGGAGCTACT 3060
 Qy 3061 GCAGGACGAGAACGACAAAGTGGGTTTCCCAAGCTTTGTCATCTCAGCCCCAGAGT 3120
 Db 3061 GCAGGACGAGAACGACAAAGTGGGTTTCCCAAGCTTTGTCATCTCAGCCCCAGAGT 3120
 Qy 3121 ATATCTGCTTGGGGAACTCTCACAGAAACTCAGGAGCAACCCCTGCTGAGCTAAGG 3180
 Db 3121 ATATCTGCTTGGGGAACTCTCACAGAAACTCAGGAGCAACCCCTGCTGAGCTAAGG 3180
 Qy 3181 GAGTCTTATCTCAGGGGGTTTAAAGTGGCTTTGCAATAATGTCGCTTATTATT 3240
 Db 3181 GAGTCTTATCTCAGGGGGTTTAAAGTGGCTTTGCAATAATGTCGCTTATTATT 3240
 Qy 3241 TAGCGGGTGAATTTTATCTGTAAGTAGCAATCAGAGTATAATGTTTATGGTGACA 3300
 Db 3241 TAGCGGGTGAATTTTATCTGTAAGTAGCAATCAGAGTATAATGTTTATGGTGACA 3300
 Qy 3301 AAATTTAAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
 Db 3301 AAATTTAAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
 Qy 3361 AA 3410
 Db 3361 AA 3410

; Sequence 100, Application US/09602877A

; Patent No. 6432707

; GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY

; FILE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER

; FILE REFERENCE: 210121.446C5

; CURRENT APPLICATION NUMBER: US/09/602,877A

; CURRENT FILING DATE: 2000-06-22

; NUMBER OF SEQ ID NOS: 107

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 100

; LENGTH: 3410

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-602-877A-100

Query Match 100.0%; Score 3409.6; DB 3; Length 3410;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGGAACACAGCTGACCGCTGGCTCCGGGTGAAGCCGCGCGCTCGGCCAGGATCTGA	60
Db	1	GGGAACACAGCTGACCGCTGGCTCCGGGTGAAGCCGCGCGCTCGGCCAGGATCTGA	60
Qy	61	GTGATGAGAGTGTCCCACTGAGTGTCCCAACAGCAGCAGGCTCTTGAGCATATGGCTGAG	120
Db	61	GTGATGAGAGTGTCCCACTGAGTGTCCCAACAGCAGCAGGCTCTTGAGCATATGGCTGAG	120
Qy	121	AAGCTGACCGGACACCAAGGGCTGGCAGAAATGGCGGCTGGCTGATTCCTAGGCAAGTT	180
Db	121	AAGCTGACCGGACACCAAGGGCTGGCAGAAATGGCGGCTGGCTGATTCCTAGGCAAGTT	180
Qy	181	GGCGGACGAGGAGAGAGCCGAGCTTCTGAGCAGAGCCGAGCAGGAGCAGAGCTTCTG	240
Db	181	GGCGGACGAGGAGAGAGCCGAGCTTCTGAGCAGAGCCGAGCAGGAGCAGAGCTTCTG	240
Qy	241	GAGTGCTGAGCAGCCGCTGAGCCCTACCGCTGCGCCGACCACTATGCTGAGAGGCTGTG	300
Db	241	GAGTGCTGAGCAGCCGCTGAGCCCTACCGCTGCGCCGACCACTATGCTGAGAGGCTGTG	300
Qy	301	GGTGAGCGGCTGCTGCGGACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAACTTT	360
Db	301	GGTGAGCGGCTGCTGCGGACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAACTTT	360
Qy	361	TGGCTGAGAGTGTGTTTGGCGCAGGACATCACTATGTGCGGCTCTGCTGCTGGAAGT	420
Db	361	TGGCTGAGAGTGTGTTTGGCGCAGGACATCACTATGTGCGGCTCTGCTGCTGGAAGT	420
Qy	421	GGGGTAGAGAGAGTTCATGACATGGTCTGGGCAATGGTCCAGTGTGGGCTTGGT	480
Db	421	GGGGTAGAGAGAGTTCATGACATGGTCTGGGCAATGGTCCAGTGTGGGCTTGGT	480
Qy	481	CTGTGCTCCGCTCTAGGCTCAGCAGTGAACCTGCGCTGAGCCTATGCGCCGCGCG	540
Db	481	CTGTGCTCCGCTCTAGGCTCAGCAGTGAACCTGCGCTGAGCCTATGCGCCGCGCG	540
Qy	541	GCCCTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGCCTCTTTCTATCCCAAGGC	600
Db	541	GCCCTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGCCTCTTTCTATCCCAAGGC	600
Qy	601	CGCTGAGTACAGGCTGTGTCGGGATCCAGGCGCTTGGAGCTGGGCTGCTCAT	660
Db	601	CGCTGAGTACAGGCTGTGTCGGGATCCAGGCGCTTGGAGCTGGGCTGCTCAT	660
Qy	661	CCTGGGCTGGGCTGTGCTGAGCTTCTGTGGCAGGTGTGCTTCACTCAGTGGAGGCT	720
Db	661	CCTGGGCTGGGCTGTGCTGAGCTTCTGTGGCAGGTGTGCTTCACTCAGTGGAGGCT	720
Qy	721	GCTCTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTCTGCTATATGCTT	780
Db			

Db	721	GCTCTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTCTGCTATATGCTT	780
Qy	781	CATGATCAGTCTTGGGGCTGCGCTGGGCTACTCTCTGCTGCCATTTACTGGACACCG	840
Db	781	CATGATCAGTCTTGGGGCTGCGCTGGGCTACTCTCTGCTGCCATTTACTGGACACCG	840
Qy	841	TGCGCTGGCCCTTACTCTGGGACCCAGGAGGAGTGTCTTTGGCCTGTCTACCCCTCAT	900
Db	841	TGCGCTGGCCCTTACTCTGGGACCCAGGAGGAGTGTCTTTGGCCTGTCTACCCCTCAT	900
Qy	901	CTTCTCCTACCTGCTAGCAGCAGCAGCTGCTGGTGGCTGAGGAGCAGGCTTGGGCCCC	960
Db	901	CTTCTCCTACCTGCTAGCAGCAGCAGCTGCTGGTGGCTGAGGAGCAGGCTTGGGCCCC	960
Qy	961	CGAGCCAGCAGAGGGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGTCTCATGCCGGC	1020
Db	961	CGAGCCAGCAGAGGGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGTCTCATGCCGGC	1020
Qy	1021	CCGCTTGGCTTTCGGGAACCTGGGCGCCCTGTCTTCCCGGCTGCACAGCTGTCTGCC	1080
Db	1021	CCGCTTGGCTTTCGGGAACCTGGGCGCCCTGTCTTCCCGGCTGCACAGCTGTCTGCC	1080
Qy	1081	CATGCCCCGACACCTGCGCCGCTCTTCTGCTGGCTGAGCTGTGAGCTGGGACTCAT	1140
Db	1081	CATGCCCCGACACCTGCGCCGCTCTTCTGCTGGCTGAGCTGTGAGCTGGGACTCAT	1140
Qy	1141	GACCTTCACGCTGTTTTACACGAGATTTCTGTTGGGCGAGGGCTGTACAGGCGCTGCC	1200
Db	1141	GACCTTCACGCTGTTTTACAGGATTTCTGTTGGGCGAGGGCTGTACAGGCGCTGCC	1200
Qy	1201	AGCTGAGCCGGGACCGAGCCCGGAGACATATGATGAAGGGCTTCGGATGGGACGCT	1260
Db	1201	AGCTGAGCCGGGACCGAGCCCGGAGACATATGATGAAGGGCTTCGGATGGGACGCT	1260
Qy	1261	GGGGCTGTTCTCAGTGTGCGCCATCTCCCTGCTTCTCTGCTGTCTATGAGCCGGCT	1320
Db	1261	GGGGCTGTTCTCAGTGTGCGCCATCTCCCTGCTTCTCTGCTGTCTATGAGCCGGCT	1320
Qy	1321	GCAGCGATTCGGCACTCGAGCAGTCTATTTTGGCCAGTGTGCGAGCTTTCCTGTGGTGC	1380
Db	1321	GCAGCGATTCGGCACTCGAGCAGTCTATTTTGGCCAGTGTGCGAGCTTTCCTGTGGTGC	1380
Qy	1381	CGGTGCCACATGCTGTCTCCACAGTGTGGCGTGTGAGCAGCTTTCAGCCGCGCTTAC	1440
Db	1381	CGGTGCCACATGCTGTCTCCACAGTGTGGCGTGTGAGCAGCTTTCAGCCGCGCTTAC	1440
Qy	1441	GTTTCACTTCTCAGCCCTCAGATCTGCGCCCTACACACTGCGCTTCTCTACCAACCGGA	1500
Db	1441	GTTTCACTTCTCAGCCCTCAGATCTGCGCCCTACACACTGCGCTTCTCTACCAACCGGA	1500
Qy	1501	GAAGCAGTGTCTTCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGG	1560
Db	1501	GAAGCAGTGTCTTCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGG	1560
Qy	1561	CCTGATGACAGCTTCTGCGCAGGCTTAAGCCTTGGAGCTTCTTCTTCTTCTTCTTCT	1620
Db	1561	CCTGATGACAGCTTCTGCGCAGGCTTAAGCCTTGGAGCTTCTTCTTCTTCTTCTTCT	1620
Qy	1621	GGGTGCTGAGGAGGCTGCTGCCACCTTCCACCTGCGCGCTGTGCGGGGCTCTGCTG	1680
Db	1621	GGGTGCTGAGGAGGCTGCTGCCACCTTCCACCTGCGCGCTGTGCGGGGCTCTGCTG	1680
Qy	1681	TGATGCTCTCGTACGTGTGGTGTGGTGTAGCCAGCCAGGCGGCTTCTGCGGGCG	1740
Db	1681	TGATGCTCTCGTACGTGTGGTGTGGTGTAGCCAGCCAGGCGGCTTCTGCGGGCG	1740
Qy	1741	GGGCATCTGCTGGAACCTCGCCCATCTCTGATGTGCTTCTGCTGCCAGGTGGCCCC	1800
Db	1741	GGGCATCTGCTGGAACCTCGCCCATCTCTGATGTGCTTCTGCTGCCAGGTGGCCCC	1800
Qy	1801	ATCCCTGTTTATGGGCTTCATTTGTCAGCTCAGCAGTGTGTCTATATGCTGTC	1860
Db	1801	ATCCCTGTTTATGGGCTTCATTTGTCAGCTCAGCAGTGTGTCTATATGCTGTC	1860

Qy	1861	TGCGCAGGCGTGGGTCTGGTCGCCATTTACTTTTGCTACACAGGTAGTATTTGACAAGAG	1920
Db	1861	TGCGCAGGCGTGGGTCTGGTCGCCATTTACTTTTGCTACACAGGTAGTATTTGACAAGAG	1920
Qy	1921	CGACTTGGCCAAATACCTCAGCGTAGAAAACTTCCAGACACATTGGGGTGGAGGGCTGSCCT	1980
Db	1921	CGACTTGGCCAAATACCTCAGCGTAGAAAACTTCCAGCACATTGGGGTGGAGGGCTGSCCT	1980
Qy	1981	CAC TTGGGTCCCAGCTCCCGCTCCTGTTAGCCCCCATGGGGCTGCGGGCTGGCGCCAGT	2040
Db	1981	CAC TTGGGTCCCAGCTCCCGCTCCTGTTAGCCCCCATGGGGCTGCGGGCTGGCGCCAGT	2040
Qy	2041	TTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCCCTGTGCTGTGCTGAGGTGCGTA	2100
Db	2041	TTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCCCTGTGCTGTGCTGAGGTGCGTA	2100
Qy	2101	GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCCCCAGTCTCTAGGGCTGCGCTG	2160
Db	2101	GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCCCCAGTCTCTAGGGCTGCGCTG	2160
Qy	2161	ACTGGAGGCTTCCAAAGGGGTTTCAGCTGTGACATTATACAGGAGGCCAAGAGGGCTCC	2220
Db	2161	ACTGGAGGCTTCCAAAGGGGTTTCAGCTGTGACATTATACAGGAGGCCAAGAGGGCTCC	2220
Qy	2221	ATGCAC TTGGAATGCGGGGACTCTGACAGTGGATTTACCCAGGCTCAGGGTTAAACAGCTAGC	2280
Db	2221	ATGCAC TTGGAATGCGGGGACTCTGACAGTGGATTTACCCAGGCTCAGGGTTAAACAGCTAGC	2280
Qy	2281	CTCCTAGTTGAGACACACTAGAGAAAGGGTTTTTGGAGCTGTAATAACTCAGTCAACCTG	2340
Db	2281	CTCCTAGTTGAGACACACTAGAGAAAGGGTTTTTGGAGCTGTAATAACTCAGTCAACCTG	2340
Qy	2341	GT TTCCCATCTTAAGCCCCCTTAACCTGCAGCTTCGTTTAATGTAGCTCTTGATGGGAG	2400
Db	2341	GT TTCCCATCTTAAGCCCCCTTAACCTGCAGCTTCGTTTAATGTAGCTCTTGATGGGAG	2400
Qy	2401	TTTCTAGATGAACACTCTCTCATGGGATTTGAAACATATGACTTATTTCTAGGGGAAGA	2460
Db	2401	TTTCTAGATGAACACTCTCTCATGGGATTTGAAACATATGACTTATTTCTAGGGGAAGA	2460
Qy	2461	GTCTTAGGGGCAACACACAAAGAACAGGTCCCTCAGCCCCACAGCACTGCTTTTTTGCT	2520
Db	2461	GTCTTAGGGGCAACACACAAAGAACAGGTCCCTCAGCCCCACAGCACTGCTTTTTTGCT	2520
Qy	2521	GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTGTCCTTCTGTTGCCATCA	2580
Db	2521	GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTGTCCTTCTGTTGCCATCA	2580
Qy	2581	CAGAGACACAGGCATTTAAATATTTAACTTATTTATTTAAACAAAGTAGAAGGAAATCCAT	2640
Db	2581	CAGAGACACAGGCATTTAAATATTTAACTTATTTATTTAAACAAAGTAGAAGGAAATCCAT	2640
Qy	2641	TGCTAGCTTTTCTGTGTGGTGCTAATATTTGGGTAGGGTGGGGATCCCCAACATCA	2700
Db	2641	TGCTAGCTTTTCTGTGTGGTGCTAATATTTGGGTAGGGTGGGGATCCCCAACATCA	2700
Qy	2701	GGTCCCCCTGAGATAGCTGGTCAATTTGGGCTGATCAATGCCAGAATCTTTCTCTCTGGGGT	2760
Db	2701	GGTCCCCCTGAGATAGCTGGTCAATTTGGGCTGATCAATTTGCCAGAATCTTTCTCTCTGGGGT	2760
Qy	2761	CTGGCCCCCAAAATGCTTAAACCCAGACCTTGGAAATTTCTACTCATCCCAATGTAAT	2820
Db	2761	CTGGCCCCCAAAATGCTTAAACCCAGACCTTGGAAATTTCTACTCATCCCAATGTAAT	2820
Qy	2821	TCCAAATGCTTTTACCACAGGTTAGGGTGTTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT	2880
Db	2821	TCCAAATGCTTTTACCACAGGTTAGGGTGTTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT	2880
Qy	2881	CTCAACGGCTTCCCTAAACCAACCCCTCTTCTCTTTGGCCAGCCTGGTTTCCCCCACTTCCA	2940
Db	2881	CTCAACGGCTTCCCTAAACCAACCCCTCTTCTCTTTGGCCAGCCTGGTTTCCCCCACTTCCA	2940

RESULT 6

US-09-232-149A-110
: Sequence 110. Application US/09232149A

Patent No. 6465611

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

APPLICANT: DILLON, DAVIN C.

APPLICANT: Mitcham, Jennifer Lynn

;
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE

; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR TREATMENT
; FILING REFERENCE: 210121-427C6

: CURRENT APPLICATION NUMBER:

; CURRENT FILING DATE: 1999-01-15

; NUMBER OF SEQ ID NOS: 338

; SOFTWARE: Fas

7 PAGE# 2410
; SEQ ID NO 110

```

; LENGTH: 341
; TYPE: DNA

```

1. LIFE: DNA

US-09-232-149

Query Match

Best Local Similarity 100.0%; Pred. No. 0;

```
Matches 3410; Conservative 0; Mismatches 0;
```

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

QY	1	GGGAACAGAGCTGTGACAGCGCTGGCTTCGGGTGACAGCGCGCGCTTCGGCCACAGGATCTCTGA	60
Db	1	GGGAACAGAGCTGTGACAGCGCTGGCTTCGGGTGACAGCGCGCGCTTCGGCCACAGGATCTCTGA	60
QY	61	GTGATGAGACGTGTCTCCCACTGAGGTGCCCCACACAGCAGCAGGTGTTTGAGCATGGGGCTGAG	120
Db	61	GTGATGAGACGTGTCTCCCACTGAGGTGCCCCACACAGCAGCAGGTGTTTGAGCATGGGGCTGAG	120
QY	121	AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGCGCCTGGCTGATCTCTAGGCAGTT	180
Db	121	AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGCGCCTGGCTGATCTCTAGGCAGTT	180
QY	181	GGCGGCAGCAAGGAGGAGAGCCGCGAGCTTCTTGGAGCAGAGCCGAGACGAAAGCAGTTCTTG	240
Db	181	GGCGGCAGCAAGGAGGAGAGCCGCGAGCTTCTTGGAGCAGAGCCGAGACGAAAGCAGTTCTTG	240

QY 241 GAGTCCCTGAACGGCCCCCTGAGCCCTACCCGCTTGGCCCACTATGGTCCAGAGGCTGTG 300
DB 241 GAGTCCCTGAACGGCCCCCTGAGCCCTACCCGCTTGGCCCACTATGGTCCAGAGGCTGTG 300
QY 301 GGTGAGCGCCTGCTGCGGCAACCGAAAGCCAGCTCTTGTGTCACCTGCTTAACCTT 360
DB 301 GGTGAGCGCCTGCTGCGGCAACCGAAAGCCAGCTCTTGTGTCACCTGCTTAACCTT 360
QY 361 TGGCTGAGAGTGTGTTTGGCGCAGGCAATCACCTATGTGCGCCTCTGCTGCTGGAAGT 420
DB 361 TGGCTGAGAGTGTGTTTGGCGCAGGCAATCACCTATGTGCGCCTCTGCTGCTGGAAGT 420
QY 421 GGGGTTAGAGAGAGTTTATGAACATGGTGTGGGCAATGGTCAAGTGTGGGCTGGT 480
DB 421 GGGGTTAGAGAGAGTTTATGAACATGGTGTGGGCAATGGTCAAGTGTGGGCTGGT 480
QY 481 CTGTGTCCTGCTCTAGGCTCAGCCAGTGACCACTGGCGTGGACGCTATGGCCGCGCG 540
DB 481 CTGTGTCCTGCTCTAGGCTCAGCCAGTGACCACTGGCGTGGACGCTATGGCCGCGCG 540
QY 541 GCCCTTCACTTGGGCACTGTCTTGGGCACTCTGCTGAGCCTCTTCTCATCCCAAGGC 600
DB 541 GCCCTTCACTTGGGCACTGTCTTGGGCACTCTGCTGAGCCTCTTCTCATCCCAAGGC 600
QY 601 CGGCTGGCTAGCAGGGCTGTGTGCCCCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT 660
DB 601 CGGCTGGCTAGCAGGGCTGTGTGCCCCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT 660
QY 661 CTTGGGCTGGGCTGTGAGACTTCTGTGGGCACTGTGAGGCTGTGCTCACTGGAGGCT 720
DB 661 CTTGGGCTGGGCTGTGAGACTTCTGTGGGCACTGTGAGGCTGTGCTCACTGGAGGCT 720
QY 721 GCTCTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTACTGTGCTATGCTT 780
DB 721 GCTCTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTACTGTGCTATGCTT 780
QY 781 CATGATCAGTCTTGGGGCTGCTGGCTACCTCTGCTGCCATTTGACTGGGACACCAG 840
DB 781 CATGATCAGTCTTGGGGCTGCTGGCTACCTCTGCTGCCATTTGACTGGGACACCAG 840
QY 841 TGCCCTGGCCCCCTACTCTGGGACCCAGAGAGAGTGCCTCTTGGCTGTGCTCACTCAT 900
DB 841 TGCCCTGGCCCCCTACTCTGGGACCCAGAGAGAGTGCCTCTTGGCTGTGCTCACTCAT 900
QY 901 CTTCTCAGCTGCTAGCAGCACACTGCTGTGCTGAGGAGCAGCGCTGGGCCCCAC 960
DB 901 CTTCTCAGCTGCTAGCAGCACACTGCTGTGCTGAGGAGCAGCGCTGGGCCCCAC 960
QY 961 CGAGCCAGCAGAGGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGCTCAATGCGGGC 1020
DB 961 CGAGCCAGCAGAGGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGCTCAATGCGGGC 1020
QY 1021 CCGCTTGGCTTTCGGAACTTGGGGCTGCTGCTTCCCGGCTGCAACAGCTGTGCTGCG 1080
DB 1021 CCGCTTGGCTTTCGGAACTTGGGGCTGCTGCTTCCCGGCTGCAACAGCTGTGCTGCG 1080
QY 1081 CATGCCCGCACCTTGGCGGCTTCTGCTGCTGAGCTGTGAGCTGGAGTGGCACTCAT 1140
DB 1081 CATGCCCGCACCTTGGCGGCTTCTGCTGCTGAGCTGTGAGCTGGAGTGGCACTCAT 1140
QY 1141 GACCTTACGCTGTTTACAGGATTTCTGGGGGAGGGCTGTACCAAGGCGCTGCCAG 1200
DB 1141 GACCTTACGCTGTTTACAGGATTTCTGGGGGAGGGCTGTACCAAGGCGCTGCCAG 1200
QY 1201 AGCTGAGCCGGGACCGAGGCCCGGAGACATATGATGAAGCGTTGGATGGGAGCCT 1260
DB 1201 AGCTGAGCCGGGACCGAGGCCCGGAGACATATGATGAAGCGTTGGATGGGAGCCT 1260
QY 1261 GGGGCTGTTCTGAGTGGGCACTCTCCCTGGTCTTCTCTGCTGATGAGCCGGCTGGT 1320
DB 1261 GGGGCTGTTCTGAGTGGGCACTCTCCCTGGTCTTCTCTGCTGATGAGCCGGCTGGT 1320

QY 1321 GCACGATTTGGCACTCGAGCAGTCTATTTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGC 1380
DB 1321 GCACGATTTGGCACTCGAGCAGTCTATTTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGC 1380
QY 1381 CGGTGCCACATGCTGTGCTGCCACAGTGTGGCGTGGTGCAGCTTCAGCGCCCTCACCG 1440
DB 1381 CGGTGCCACATGCTGTGCTGCCACAGTGTGGCGTGGTGCAGCTTCAGCGCCCTCACCG 1440
QY 1441 GTTCACCTTCTCAGCCCTTGAGATCTGCCCTTACACACTGCGCCTCCCTCTACCAACCGGA 1500
DB 1441 GTTCACCTTCTCAGCCCTTGAGATCTGCCCTTACACACTGCGCCTCCCTCTACCAACCGGA 1500
QY 1501 GAAGCAGGTGTTCTGCCCCAAATACCGAGGGGAACACTGGAGGTGTAGCAGTGAAGACAG 1560
DB 1501 GAAGCAGGTGTTCTGCCCCAAATACCGAGGGGAACACTGGAGGTGTAGCAGTGAAGACAG 1560
QY 1561 CCTGATGACAGCTTCTGCGGCGCTTACGCTGGAGCTCCCTTCCCTAATGGAACAGT 1620
DB 1561 CCTGATGACAGCTTCTGCGGCGCTTACGCTGGAGCTCCCTTCCCTAATGGAACAGT 1620
QY 1621 GGGTGTGGAGGCACTGCTGCCACCTTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
DB 1621 GGGTGTGGAGGCACTGCTGCCACCTTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
QY 1681 TGATGTCTCCGTACGTGTGTGGTGGTGGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCG 1740
DB 1681 TGATGTCTCCGTACGTGTGTGGTGGTGGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCG 1740
QY 1741 GGGCATCTGCTGAGACCTCGCCATCTCGATAGTGCCTTCTGCTGTGCTCCAGGTGGCCCC 1800
DB 1741 GGGCATCTGCTGAGACCTCGCCATCTCGATAGTGCCTTCTGCTGTGCTCCAGGTGGCCCC 1800
QY 1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCATATATGGTGTCT 1860
DB 1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCATATATGGTGTCT 1860
QY 1861 TGCCGAGGCTGGTCTGGTCTGCTGCTTACTTTTGTACACAGAGTAGTATTTGAACAAG 1920
DB 1861 TGCCGAGGCTGGTCTGGTCTGCTGCTTACTTTTGTACACAGAGTAGTATTTGAACAAG 1920
QY 1921 CGACTTGGCCAAATACTCAGGCTAGAAAACCTTCAGCACATTTGGGGTGGAGGGCTTGCCT 1980
DB 1921 CGACTTGGCCAAATACTCAGGCTAGAAAACCTTCAGCACATTTGGGGTGGAGGGCTTGCCT 1980
QY 1981 CACTGGGCTCCAGCTCCCGCTCTGTTAGCCCCATGGGGCTGCGGCTGGCCGCGCAGT 2040
DB 1981 CACTGGGCTCCAGCTCCCGCTCTGTTAGCCCCATGGGGCTGCGGCTGGCCGCGCAGT 2040
QY 2041 TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCACCTTGTCTGCTGAGGTGCGTA 2100
DB 2041 TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCACCTTGTCTGCTGAGGTGCGTA 2100
QY 2101 GCTGCAAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
DB 2101 GCTGCAAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
QY 2161 ACTGGAGGCTTCCAGGGGCTTTCAGTCTGGAGCTTATACAGGAGGCGCAGAGGGCTCC 2220
DB 2161 ACTGGAGGCTTCCAGGGGCTTTCAGTCTGGAGCTTATACAGGAGGCGCAGAGGGCTCC 2220
QY 2221 ATGCACTGGAATGCGGGGCTCTGCAAGTGGATTTACCCAGGCTCAGGGTAAACAGCTAGC 2280
DB 2221 ATGCACTGGAATGCGGGGCTCTGCAAGTGGATTTACCCAGGCTCAGGGTAAACAGCTAGC 2280
QY 2281 CTCTAGTTGAGACACCTTAGAGAGGGTTTTTGGAGAGTGAATAAATCAGTCACTGT 2340
DB 2281 CTCTAGTTGAGACACCTTAGAGAGGGTTTTTGGAGAGTGAATAAATCAGTCACTGT 2340
QY 2341 GTTTCCCATCTCTAAGCCCTTAACTGAGCTTCTGTTTAAATGTAGCTTCTTGCATGGAG 2400
DB 2341 GTTTCCCATCTCTAAGCCCTTAACTGAGCTTCTGTTTAAATGTAGCTTCTTGCATGGAG 2400
QY 2401 TTTCTAGGATGAACACACTCTCCATGGGATTTGAACATATGACTTATTTTGTAGGGGAAGA 2460


```
Db 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 GTCTTGAGGGGCAACACAGAACACAGTCCCTCAGCCACAGCACTGCTTTTGTCT 2520
Db 2461 GTCTTGAGGGGCAACACAGAACACAGTCCCTCAGCCACAGCACTGCTTTTGTCT 2520
Qy 2521 GATCACCCCTCTTACCTTTTATCAGGATGAGGCTGTTGGTCTCTCTGTGTCATCA 2580
Db 2521 GATCACCCCTCTTACCTTTTATCAGGATGAGGCTGTTGGTCTCTCTGTGTCATCA 2580
Qy 2581 CAGACACAGGCATTTAAATTTAACTTATTTAACTTATTTAACTTATTTAACTTATTTAA 2640
Db 2581 CAGACACAGGCATTTAAATTTAACTTATTTAACTTATTTAACTTATTTAACTTATTTAA 2640
Qy 2641 TGCTAGCTTTTCTGTGTTGGTGTCTAAATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTTGGTGTCTAAATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Qy 2701 GGTCCCTGAGATAGTGTCTCAATGGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGGT 2760
Db 2701 GGTCCCTGAGATAGTGTCTCAATGGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGGT 2760
Qy 2761 GTGGCCCTCAAAATGCTTAACCCAGGACCTTTGGAATTTCTACTCATCCCAAAATGATAAT 2820
Db 2761 GTGGCCCTCAAAATGCTTAACCCAGGACCTTTGGAATTTCTACTCATCCCAAAATGATAAT 2820
Qy 2821 TCCAAATGCTGTATCCCAAGGTTAGGGTGTGGAAGGAGGTAGAGGTTGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTATCCCAAGGTTAGGGTGTGGAAGGAGGTAGAGGTTGGGCTTCAGGT 2880
Qy 2881 CTCAACGGCTTCCCTTAACACCCCTCTTCTCTGTGCCAGGCTGTGTTCCCTCACTTCCA 2940
Db 2881 CTCAACGGCTTCCCTTAACACCCCTCTTCTCTGTGCCAGGCTGTGTTCCCTCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3060
Db 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3060
Qy 3061 GCAGGACAGAGCAAAAGTGGGTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3120
Db 3061 GCAGGACAGAGCAAAAGTGGGTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3120
Qy 3121 ATATCTGTCTGGGGAATCTCACACAGAACTCAGGAGCACTCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTCTGGGGAATCTCACACAGAACTCAGGAGCACTCCCTGCTGAGCTAAGG 3180
Qy 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGGGTTTAAAGTGGGTTTAAAGTGGGTTTAA 3240
Db 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGGGTTTAAAGTGGGTTTAAAGTGGGTTTAA 3240
Qy 3241 TAGCGGGGTGAATTTTATCTAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 3300
Db 3241 TAGCGGGGTGAATTTTATCTAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 3300
Qy 3301 AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 3360
Qy 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
```

```
; APPLICANT: Xu, Jiangchun  
; APPLICANT: Dillon, Davin C.  
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF  
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE  
; FILE REFERENCE: 210121.428C5  
; CURRENT APPLICATION NUMBER: US/09/159,812A  
; CURRENT FILING DATE: 1998-09-23  
; NUMBER OF SEQ ID NOS: 306  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 110  
; LENGTH: 3410  
; TYPE: DNA  
; ORGANISM: Homo sapien  
; US-09-159-812-110
```

```
Query Match 100.0%; Score 3409,6; DB 4; Length 3410;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 GGGAAACAGCCTGCACGCGCTCGGCTCGGGGTGACAGCCGCGCCTCGGCCAGGATCTGA 60  
Db 1 GGGAAACAGCCTGCACGCGCTCGGCTCGGGGTGACAGCCGCGCCTCGGCCAGGATCTGA 60  
Qy 61 GTGATGAGAGCTGTCCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120  
Db 61 GTGATGAGAGCTGTCCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120  
Qy 121 AAGCTGGACCGGACCAAAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT 180  
Db 121 AAGCTGGACCGGACCAAAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT 180  
Qy 181 GCGCGCAGCAAGGAGGAGGCGCCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAAGTCTG 240  
Db 181 GCGCGCAGCAAGGAGGAGGCGCCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAAGTCTG 240  
Qy 241 GAGTGCCTGAACGCGCCCTGAGCCCTACCGCCTGGCCCACTATGGTCCAGAGGCTG 300  
Db 241 GAGTGCCTGAACGCGCCCTGAGCCCTACCGCCTGGCCCACTATGGTCCAGAGGCTG 300  
Qy 301 GGTGAGCGCCTGTCTGGGCAACCGAAAGCCAGCTTCTGTGGTCAACCTGTCAACCTT 360  
Db 301 GGTGAGCGCCTGTCTGGGCAACCGAAAGCCAGCTTCTGTGGTCAACCTGTCAACCTT 360  
Qy 361 TGGCTGTGAGGTGTGTTTGGCGCAGGCATCACCTATGTGCCGCTCTGTGCTGGAAGT 420  
Db 361 TGGCTGTGAGGTGTGTTTGGCGCAGGCATCACCTATGTGCCGCTCTGTGCTGGAAGT 420  
Qy 421 GGGGTGAGAGAGAAAGTTTCATGACCATGTTGCTGGGCAATGGTCCAGTGTGGGCTGCT 480  
Db 421 GGGGTGAGAGAGAAAGTTTCATGACCATGTTGCTGGGCAATGGTCCAGTGTGGGCTGCT 480  
Qy 481 CTGTGTCCCGCTCTTAGGCTCAGCAGTGACACTTGGCGTGGAGCTATGATGCCCGCGCG 540  
Db 481 CTGTGTCCCGCTCTTAGGCTCAGCAGTGACACTTGGCGTGGAGCTATGATGCCCGCGCG 540  
Qy 541 GCCCTTCACTTGGGCACTGCTTGGGCACTCCTGTGAGCCTCTTTTCATCCCAAGGCG 600  
Db 541 GCCCTTCACTTGGGCACTGCTTGGGCACTCCTGTGAGCCTCTTTTCATCCCAAGGCG 600  
Qy 601 CGGCTGGCTAGCAGGCTGTGTCGCCGGATCCAGGCGCCCTGGAGCTGGCACTGCTCAT 660  
Db 601 CGGCTGGCTAGCAGGCTGTGTCGCCGGATCCAGGCGCCCTGGAGCTGGCACTGCTCAT 660  
Qy 661 CCTGGGCTGGGCTGTGGAATTTCTGTGGCAGGTGTGCTTCACTCCACTGGAGGCTCT 720  
Db 661 CCTGGGCTGGGCTGTGGAATTTCTGTGGCAGGTGTGCTTCACTCCACTGGAGGCTCT 720  
Qy 721 GCTCTCTGACCTTTCGGGACCCCGGACCACTGTGCGCAGGCTTACTCTGTCTATGCTT 780  
Db 721 GCTCTCTGACCTTTCGGGACCCCGGACCACTGTGCGCAGGCTTACTCTGTCTATGCTT 780  
Qy 781 CATGATCAGTCTTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840  
Db 781 CATGATCAGTCTTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
```

Db 781 CATGANTAGTCTTGGGGGCTGCTCGGGGCTA CTTCTGCTGCCATTGACTGGGACACCAG 840
Qy 841 TGCCCTGCCCCCTACCTGGGCACCCAGGAGAGTGCTCTTTGGCCCTGCTCACCCCTCAT 900
Db 841 TGCCCTGCCCCCTACCTGGGCACCCAGGAGAGTGCTCTTTGGCCCTGCTCACCCCTCAT 900
Qy 901 CTTCTCTACCTGCTGAGGACCACTGCTGCTGGCTGAGGAGGAGCGCTGGGGCCAC 960
Db 901 CTTCTCTACCTGCTGAGGACCACTGCTGCTGGCTGAGGAGGAGCGCTGGGGCCAC 960
Qy 961 CGAGCGACGAAGGGCTGTCGGGCCCCCTCTGTCGCCCCCACTGCTGTCATGCCGGGC 1020
Db 961 CGAGCGACGAAGGGCTGTCGGGCCCCCTCTGTCGCCCCCACTGCTGTCATGCCGGGC 1020
Qy 1021 CCGCTTGCTTTCCGGAACTTGGGCGCCCTGCTTTCCCGGCTGCAACAGCTGTGTCGCG 1080
Db 1021 CCGCTTGCTTTCCGGAACTTGGGCGCCCTGCTTTCCCGGCTGCAACAGCTGTGTCGCG 1080
Qy 1081 CATGCCCGCACCTTGGCCCGGCTCTTCTGCTGGCTGAGCTGTGCACTGGATGGCACTCAT 1140
Db 1081 CATGCCCGCACCTTGGCCCGGCTCTTCTGCTGGCTGAGCTGTGCACTGGATGGCACTCAT 1140
Qy 1141 GACCTTCACGCTGTTTACACGGATTTGCTGGGCGAGGGCTGTACAGGGCGTGGCCAG 1200
Db 1141 GACCTTCACGCTGTTTACACGGATTTGCTGGGCGAGGGCTGTACAGGGCGTGGCCAG 1200
Qy 1201 AGCTGAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTGCGATGGGCGAGCT 1260
Db 1201 AGCTGAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTGCGATGGGCGAGCT 1260
Qy 1261 GGGGCTGTTCTGCACTGCGCCATCTCCCTGGTCTTCTCTGCTGTCATGAGACCGGCTGGT 1320
Db 1261 GGGGCTGTTCTGCACTGCGCCATCTCCCTGGTCTTCTCTGCTGTCATGAGACCGGCTGGT 1320
Qy 1321 GCAGCGATTGCGCACTCGAGCAGTCTATTGGCCAGTGTGCGACGTTTCCCTGTGGCTGC 1380
Db 1321 GCAGCGATTGCGCACTCGAGCAGTCTATTGGCCAGTGTGCGACGTTTCCCTGTGGCTGC 1380
Qy 1381 CGGTGCCACATGCTGTCGCCACAGTGTGGCGTGGTGACAGCTTTCAGCGGCCCTCACCGG 1440
Db 1381 CGGTGCCACATGCTGTCGCCACAGTGTGGCGTGGTGACAGCTTTCAGCGGCCCTCACCGG 1440
Qy 1441 GTTCACCTTCTCAGCCCTGACAGTCTGTCGCCCTACACACTGSCCTCCCTCTACCAACCGGGA 1500
Db 1441 GTTCACCTTCTCAGCCCTGACAGTCTGTCGCCCTACACACTGSCCTCCCTCTACCAACCGGGA 1500
Qy 1501 GAAGCAGGTGTTCTGCCCAATACGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Db 1501 GAAGCAGGTGTTCTGCCCAATACGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Qy 1561 CCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACGT 1620
Db 1561 CCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACGT 1620
Qy 1621 GGGTGTCTGGAGCAGTGGCTGCTCCACCTTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db 1621 GGGTGTCTGGAGCAGTGGCTGCTCCACCTTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 TGATGTCTCCCTACGTGTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGTTCGGGCGG 1740
Db 1681 TGATGTCTCCCTACGTGTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGTTCGGGCGG 1740
Qy 1741 GGGCATCTGCGCTGACCTCGCCATCTCCCTGGAATGTCCTGCTGTCCTCCAGGTGGCCCC 1800
Db 1741 GGGCATCTGCGCTGACCTCGCCATCTCCCTGGAATGTCCTGCTGTCCTCCAGGTGGCCCC 1800
Qy 1801 ATCCCTGTTTATGGCTCATTGTCCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Db 1801 ATCCCTGTTTATGGCTCATTGTCCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Qy 1861 TGCCGAGGCTGGGTCTGGTGGCAATTAATTTGCTACACAGTAGTATTTGACAGAG 1920
Db 1861 TGCCGAGGCTGGGTCTGGTGGCAATTAATTTGCTACACAGTAGTATTTGACAGAG 1920

Qy 1921 CGACTTGGCCAAATATCTCAGCGTAGAAAACCTTCAGCACATTTGGGGTGGAGGCTGCCT 1980
Db 1921 CGACTTGGCCAAATATCTCAGCGTAGAAAACCTTCAGCACATTTGGGGTGGAGGCTGCCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGGCTCCTGTAGCCCATATGGGGTGCCTGGGCTGGCGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGGCTCCTGTAGCCCATATGGGGTGCCTGGGCTGGCGCCAGT 2040
Qy 2041 TTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCTCTGCTGCTGAGGTGGCTA 2100
Db 2041 TTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGCTGCCACCTCTGCTGCTGAGGTGGCTA 2100
Qy 2101 GCTGCACAGCTTGGGGGCTGGGGCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db 2101 GCTGCACAGCTTGGGGGCTGGGGCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGGAGGCTTCCAAAGGGGTTTTCAGTCTGGACTTATACAGGAGGCGACAAAGGCTCC 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTTCAGTCTGGACTTATACAGGAGGCGACAAAGGCTCC 2220
Qy 2221 ATGCACCTGGAAATGCGGGGACTCTGCAGGTGGAATTTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Db 2221 ATGCACCTGGAAATGCGGGGACTCTGCAGGTGGAATTTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Qy 2281 CTCTAGTTGAGACACACCTTAGAAGGGTTTTTGGGAGCTGAAATAAACTCAGTCACTCTG 2340
Db 2281 CTCTAGTTGAGACACACCTTAGAAGGGTTTTTGGGAGCTGAAATAAACTCAGTCACTCTG 2340
Qy 2341 GTTTCCCATCTTAAGCCCCCTTAACTGCACTGCTGTTTAAATGTAGCTCTTTGCAATGGGAG 2400
Db 2341 GTTTCCCATCTTAAGCCCCCTTAACTGCACTGCTGTTTAAATGTAGCTCTTTGCAATGGGAG 2400
Qy 2401 TTTCTAGGATGAACACTCTCCATGGATTTGAACATATGACTTATTTGTAGGGGAGA 2460
Db 2401 TTTCTAGGATGAACACTCTCCATGGATTTGAACATATGACTTATTTGTAGGGGAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAAGAACACAGGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Db 2461 GTCTGAGGGGCAACACACAAGAACACAGGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGGCTGTGTGGTCTTCTGTTGCCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGGCTGTGTGGTCTTCTGTTGCCATCA 2580
Qy 2581 CAGAGACACAGGCAATTAATATTTAACTTATTTAACTTATTTAACTTAACTTAACTTAACT 2640
Db 2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTAACTTATTTAACTTAACTTAACT 2640
Qy 2641 TGCTAGCTTTTCTGTTGGTGTCTAATATTTGGGTAGGGTGGGGGATCCCCAACAAATCA 2700
Db 2641 TGCTAGCTTTTCTGTTGGTGTCTAATATTTGGGTAGGGTGGGGGATCCCCAACAAATCA 2700
Qy 2701 GGTCCCCCTGAGATGCTGTCATTTGGGCTGATCATTTGCCAGAAATCTTCTTCTCTCGGGGT 2760
Db 2701 GGTCCCCCTGAGATGCTGTCATTTGGGCTGATCATTTGCCAGAAATCTTCTTCTCTCGGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACT 2820
Db 2761 CTGGCCCCCAAAATGCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACT 2820
Qy 2821 TCCAAATGCTGTTTACCAAGGTAGGGTGTGGAAGAGGTAGAGGGTGGGGCTTTCAGGT 2880
Db 2821 TCCAAATGCTGTTTACCAAGGTAGGGTGTGGAAGAGGTAGAGGGTGGGGCTTTCAGGT 2880
Qy 2881 CTCAAGCGCTTCCCTAACCCACCTCTTCTCTTGGCCCCAGGCTGGTTCCCCCCTTCCA 2940
Db 2881 CTCAAGCGCTTCCCTAACCCACCTCTTCTCTTGGCCCCAGGCTGGTTCCCCCCTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAGGCACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAGGCACTGCCCAAAATTTCCCTTACC 3000

QY 3001 CCCAACTTTCCCTACCCCAACTTTTCCCAACAGCTGCAAAACCTGTTTGGAGCTACT 3060
Db |||||
QY 3001 CCCAACTTTCCCTACCCCAACTTTTCCCAACAGCTGCAAAACCTGTTTGGAGCTACT 3060
Db |||||
QY 3061 GCAGACACAGACGACAAAGTGGGTTTCCCAAGCTTTGTCATCTCAGCCCCAGAGT 3120
Db |||||
QY 3061 GCAGACACAGACGACAAAGTGGGTTTCCCAAGCTTTGTCATCTCAGCCCCAGAGT 3120
Db |||||
QY 3121 ATATCTGCTTGGGGAATCTCACACAGAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180
Db |||||
QY 3121 ATATCTGCTTGGGGAATCTCACACAGAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180
Db |||||
QY 3181 GAGTCTTATCTCTCAGGGGGTTAAAGTGGGTTTGAATGTCATTAATTTATTTATTT 3240
Db |||||
QY 3181 GAGTCTTATCTCTCAGGGGGTTAAAGTGGGTTTGAATGTCATTAATTTATTTATTT 3240
Db |||||
QY 3241 TAGCGGGGTGATATTTTATATCTTAAGTGAGCAATCAGAGTAAATGTTATGTTGACA 3300
Db |||||
QY 3241 TAGCGGGGTGATATTTTATATCTTAAGTGAGCAATCAGAGTAAATGTTATGTTGACA 3300
Db |||||
QY 3301 AAATTAAGGCTTCTTATATGTTTAAAAAAGGTTTAAAAAAGGTTTAAAAAAGGTTT 3360
Db |||||
QY 3361 AAAAAAARAAAAAAGGTTTAAAAAAGGTTTAAAAAAGGTTTAAAAAAGGTTTAAAAAAG 3410
Db |||||
QY 3361 AAAAAAARAAAAAAGGTTTAAAAAAGGTTTAAAAAAGGTTTAAAAAAGGTTTAAAAAAG 3410
Db |||||

RESULT 8

US-09-636-215-110
; Sequence 110, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-636-215-110

Query Match 100.0%; Score 3409.6; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGAAACAGCTGACGGCTGGCTCCGGGTGACAGCGCGGCTCGGCCAGAGATCTGA 60
Db 1 GGGAAACAGCTGACGGCTGGCTCCGGGTGACAGCGCGGCTCGGCCAGAGATCTGA 60
QY 61 GTGATGAGAGGTGTCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120

Db |||||
QY 61 GTGATGAGAGGTGTCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120
QY |||||
QY 121 AAGCTGGACCGGCAACAAAGGCTGGCAGAAATGGGGCCCTGGGCTGATTTCTTAGCAGTT 180
Db |||||
QY 121 AAGCTGGACCGGCAACAAAGGCTGGCAGAAATGGGGCCCTGGGCTGATTTCTTAGCAGTT 180
Db |||||
QY 181 GCGCGCAACAAAGGAGGAGGCCGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG 240
Db |||||
QY 181 GCGCGCAGCAGGAGGAGGCCGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG 240
Db |||||
QY 241 GAGTGCCTGAACGGCCCTGAGCCCTACCGCTTGGCCCACTATGTTCCAGAGGCTGTG 300
Db |||||
QY 241 GAGTGCCTGAACGGCCCTGAGCCCTACCGCTTGGCCCACTATGTTCCAGAGGCTGTG 300
Db |||||
QY 301 GGTGAGCGCTGCTGGGGCAACCGGCAAGCCAGCTTTGCTGGTCAACCTGCTAACTT 360
Db |||||
QY 301 GGTGAGCGCTGCTGGGGCAACCGGCAAGCCAGCTTTGCTGGTCAACCTGCTAACTT 360
Db |||||
QY 361 TGGCTTGAAGTGTGTTTGGCCGAGGATCACCTATGTCGCCCTCTGCTGCTGGAAGT 420
Db |||||
QY 361 TGGCTTGAAGTGTGTTTGGCCGAGGATCACCTATGTCGCCCTCTGCTGCTGGAAGT 420
Db |||||
QY 421 GGGGTAGAGAGAGTTTATGATGCTGGGCAATGCTGGGCAATGCTGGGCTGGGCTGGT 480
Db |||||
QY 421 GGGGTAGAGAGAGTTTATGATGCTGGGCAATGCTGGGCAATGCTGGGCTGGGCTGGT 480
Db |||||
QY 481 CTGTGTCGGCTCTTAGGCTCAGCAGTGACACTGGGGTGGAGCTATGGCGCGCGCG 540
Db |||||
QY 481 CTGTGTCGGCTCTTAGGCTCAGCAGTGACACTGGGGTGGAGCTATGGCGCGCGCG 540
Db |||||
QY 541 GCCCTTCACTGGGCACTGCTTGGGCACTCTGCTGAGCCTCTTTCTATCCCAAGGCG 600
Db |||||
QY 541 GCCCTTCACTGGGCACTGCTTGGGCACTCTGCTGAGCCTCTTTCTATCCCAAGGCG 600
Db |||||
QY 601 CGGCTGGCTAGCAGGCTGCTGTCGCCGATCCAGGCGCTTGGAGCTGGGCACTGCTCAT 660
Db |||||
QY 601 CGGCTGGCTAGCAGGCTGCTGTCGCCGATCCAGGCGCTTGGAGCTGGGCACTGCTCAT 660
Db |||||
QY 661 CCTGGGCTGGGCTGCTGGGCACTCTGTCGGCAGGTGCTTCACTCCACCTGGAGGCGCT 720
Db |||||
QY 661 CCTGGGCTGGGCTGCTGGGCACTCTGTCGGCAGGTGCTTCACTCCACCTGGAGGCGCT 720
Db |||||
QY 721 GCTCTGACCTCTTCCGGGACCCGAGCACTGTCGCCAGGCGCTTCTGCTGATGCTT 780
Db |||||
QY 721 GCTCTGACCTCTTCCGGGACCCGAGCACTGTCGCCAGGCGCTTCTGCTGATGCTT 780
Db |||||
QY 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTTGATGGGACACAG 840
Db |||||
QY 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTTGATGGGACACAG 840
Db |||||
QY 841 TGGCTGGCCCTTACCTGGGCACTGGGCACTGGGCACTGGGCTGGGCTGGGCTGGGCTGGG 900
Db |||||
QY 841 TGGCTGGCCCTTACCTGGGCACTGGGCACTGGGCACTGGGCTGGGCTGGGCTGGGCTGGG 900
Db |||||
QY 901 CTTCTCCTCAGCTGCTAGCAGCACTGCTGGTGGTGGTGGAGGAGGCGCTGGGCGCCAC 960
Db |||||
QY 901 CTTCTCCTCAGCTGCTAGCAGCACTGCTGGTGGTGGTGGAGGAGGCGCTGGGCGCCAC 960
Db |||||
QY 961 CGAGCAGCAGAGGGCTGTCGGGCGGCTCTTGTGGCGCCACTGCTGCTGCATGCGGCG 1020
Db |||||
QY 961 CGAGCAGCAGAGGGCTGTCGGGCGGCTCTTGTGGCGCCACTGCTGCTGCATGCGGCG 1020
Db |||||
QY 1021 CCGCTTGGCTTTCGGGAACCTGGGCGGCTGCTTCCCGGGTGCACACAGCTGTGCTGCG 1080
Db |||||
QY 1021 CCGCTTGGCTTTCGGGAACCTGGGCGGCTGCTTCCCGGGTGCACACAGCTGTGCTGCG 1080
Db |||||
QY 1081 CATGCCCGCACTTGGCGGCTTCTGCTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Db |||||
QY 1081 CATGCCCGCACTTGGCGGCTTCTGCTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Db |||||
QY 1141 GACCTTCACTGCTTTTACAGGATTTGTCGGGCGGCGGCTGTACAGGCGGCTGCCAG 1200
Db |||||

Db 1141 GACCTTACGCTGTTTACACGATTTTCGTGGCGAGGGGCTGTACACAGGCGCTGCCAG 1200
Qy 1201 AGCTGAGCCGGGCAACGAGGCCGAGACACTATGATGAAGCGCTTCGATGGGCGAGCCT 1260
Db 1201 AGCTGAGCCGGGCAACGAGGCCGAGACACTATGATGAAGCGTTTCGATGGGCGAGCCT 1260
Qy 1261 GGGGCTGTTCTGTCAGTGGCCCATCTCCCTGGTCTTCTCTCTGTCATGGAACCGGCTGGT 1320
Db 1261 GGGGCTGTTCTGTCAGTGGCCCATCTCCCTGGTCTTCTCTCTGTCATGGAACCGGCTGGT 1320
Qy 1321 GCAGGGATTGGGCACTGGAGCAGTCTATTGGCCAGTGTGGCAGGTTTCCCTGTGGCTGC 1380
Db 1321 GCAGGGATTGGGCACTGGAGCAGTCTATTGGCCAGTGTGGCAGGTTTCCCTGTGGCTGC 1380
Qy 1381 CGGTGCCACATGCTCTGCCACAGTGTGGCCGCTGGTGACAGCTTTCAGCCGCCCTCACCGG 1440
Db 1381 CGGTGCCACATGCTCTGCCACAGTGTGGCCGCTGGTGACAGCTTTCAGCCGCCCTCACCGG 1440
Qy 1441 GTTCACTTCTCAGCCCTGTCAGATCTCTGCCCTCACACACTGGCCCTCTTACCAACCGGGA 1500
Db 1441 GTTCACTTCTCAGCCCTGTCAGATCTCTGCCCTCACACACTGGCCCTCTTACCAACCGGGA 1500
Qy 1501 GAACAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Db 1501 GAACAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Qy 1561 CCTGATGACCAAGTCTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
Db 1561 CCTGATGACCAAGTCTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
Qy 1621 GGGTGTCTGGAGGCAAGTGGCTGCTCCACCTTCCACCGCGGCTCTGCGGGGCTCTGGCTG 1680
Db 1621 GGGTGTCTGGAGGCAAGTGGCTGCTCCACCTTCCACCGCGGCTCTGCGGGGCTCTGGCTG 1680
Qy 1681 TGATGTCTCCGTAAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1740
Db 1681 TGATGTCTCCGTAAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1740
Qy 1741 GGGCATCTGCTGACCTCGCCATCTCGGATAGTGCCTTCTGCTGCTCCAGGTGGGCC 1800
Db 1741 GGGCATCTGCTGACCTCGCCATCTCGGATAGTGCCTTCTGCTGCTCCAGGTGGGCC 1800
Qy 1801 ATCCCTGTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Db 1801 ATCCCTGTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Qy 1861 TGCCGAGGCTGGGCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1920
Db 1861 TGCCGAGGCTGGGCTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1920
Qy 1921 CGACTTGGCCAAATACACGGTGAAGAACTTCCAGCACATTTGGGTGGAGGGCTGCCT 1980
Db 1921 CGACTTGGCCAAATACACGGTGAAGAACTTCCAGCACATTTGGGTGGAGGGCTGCCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCTCTGTAGCCCATGGGGTGGCGGGCTGGCGGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCTCTGTAGCCCATGGGGTGGCGGGCTGGCGGCCAGT 2040
Qy 2041 TTTCTGTTGCTGCCAAAGTAATGTGGCTCTGTGCTGCCACCTGTGCTGCTGAGGTGCGTA 2100
Db 2041 TTTCTGTTGCTGCCAAAGTAATGTGGCTCTGTGCTGCCACCTGTGCTGCTGAGGTGCGTA 2100
Qy 2101 GCTGCAAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db 2101 GCTGCAAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Qy 2221 ATGCACTGGAATGCGGGACTCTCAGAGTGGATTAACCGAGCTCAGGGTTAACAGCTAGC 2280
Db 2221 ATGCACTGGAATGCGGGACTCTCAGAGTGGATTAACCGAGCTCAGGGTTAACAGCTAGC 2280

Qy 2281 CTCCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Db 2281 CTCCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Qy 2341 GTTTCCCATCTCTAAGCCCTTAACTGCACTGCTGTTTAAATGTAGCTCTTGTGATGGAG 2400
Db 2341 GTTTCCCATCTCTAAGCCCTTAACTGCACTGCTGTTTAAATGTAGCTCTTGTGATGGAG 2400
Qy 2401 TTTCTAGGATGAACACACTCTCCATGGATTTGAACATATGACTTATTTGTAGGGGAGA 2460
Db 2401 TTTCTAGGATGAACACACTCTCCATGGATTTGAACATATGACTTATTTGTAGGGGAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAAGAACACAGTCCCCCTCAGCCCAACAGCACTGCTTTTTGCT 2520
Db 2461 GTCTGAGGGGCAACACACAAGAACACAGTCCCCCTCAGCCCAACAGCACTGCTTTTTGCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTTGCTCTTGTGCTCCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTTGCTCTTGTGCTCCATCA 2580
Qy 2581 CAGGACACAGGCACTTAAATATTTAACTTATTTTAACTAAGTAGAAGGGAATCCAT 2640
Db 2581 CAGGACACAGGCACTTAAATATTTAACTTATTTTAACTAAGTAGAAGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGTGCTAATAATTTGGGTAGGGTGGGGATCCCCAACAAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGTGCTAATAATTTGGGTAGGGTGGGGATCCCCAACAAATCA 2700
Qy 2701 GGTCCCTGAGATAGCTGGTCAATGGGCTCATCAATGCCAGAACTTTCTTCTCTCGGGT 2760
Db 2701 GGTCCCTGAGATAGCTGGTCAATGGGCTCATCAATGCCAGAACTTTCTTCTCTCGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAA 2820
Db 2761 CTGGCCCCCAAAATGCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAA 2820
Qy 2821 TCCAAATGCTTTTACCCCAAGGTTAGGGTGTGTAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTTTTACCCCAAGGTTAGGGTGTGTAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAAGGGCTTCCCTAACCCCTCTTCTCTTGGCCAGCCTGGTTTCCCCCACTTCCA 2940
Db 2881 CTCAAGGGCTTCCCTAACCCCTCTTCTCTTGGCCAGCCTGGTTTCCCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTAGGACTGGCTGATGAAGCACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTAGGACTGGCTGATGAAGCACTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCACTTTTCCCAAGCTTTCAGGCACTGCCCAAAATTTCCCTTACC 3060
Db 3001 CCCAACTTTCCCTTACCCCACTTTTCCCAAGCTTTCAGGCACTGCCCAAAATTTCCCTTACC 3060
Qy 3061 GCAGGACCAAGACACAAAGTGGGTTTCCCAAGCTTTCAGGCACTGCCCAAAATTTCCCTTACC 3120
Db 3061 GCAGGACCAAGACACAAAGTGGGTTTCCCAAGCTTTCAGGCACTGCCCAAAATTTCCCTTACC 3120
Qy 3121 ATATCTGTGTTGGGAACTCTCACAGAACTTCAGAGCACTCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGTTGGGAACTCTCACAGAACTTCAGAGCACTCCCTGCTGAGCTAAGG 3180
Qy 3181 GAGTCTTATCTCAGGGGGGTTTAAAGTGGCTTAAAGTGGCTTAAAGTGGCTTAAAGTGGCT 3240
Db 3181 GAGTCTTATCTCAGGGGGGTTTAAAGTGGCTTAAAGTGGCTTAAAGTGGCTTAAAGTGGCT 3240
Qy 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 3300
Db 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 3300
Qy 3301 AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360

QY 3361 AAA 3410
Db |||||

QY 3361 AAA 3410
Db |||||

RESULT 9

US-09-685-166A-110
; Sequence 110, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: RastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-685-166A-110

Query Match 100.0%; Score 3409.6; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAAACAGCTGACGCGCTGGCTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
Db |||||

QY 1 GGGAAACAGCTGACGCGCTGGCTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
Db |||||

QY 61 GTGATGAGACGTGTCCCACTGAGGTGCCCCACAGCAGCAGGTGTGAGCATGGGCTGAG 120
Db |||||

QY 61 GTGATGAGACGTGTCCCACTGAGGTGCCCCACAGCAGCAGGTGTGAGCATGGGCTGAG 120
Db |||||

QY 121 AAGCTGACCGCCACCAAGGCTGGCAGAAATGGCGCTGGCTGATTCCTAGCAGTT 180
Db |||||

QY 121 AAGCTGACCGCCACCAAGGCTGGCAGAAATGGCGCTGGCTGATTCCTAGCAGTT 180
Db |||||

QY 181 GCGCAGCAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db |||||

QY 181 GCGCAGCAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db |||||

QY 241 GAGTGCCTGAAACGGCCCCCTGAGCCCTACCCGCTGGCCCACTATGTTCCAGAGCTGTG 300
Db |||||

QY 241 GAGTGCCTGAAACGGCCCCCTGAGCCCTACCCGCTGGCCCACTATGTTCCAGAGCTGTG 300
Db |||||

QY 301 GGTGAGCCGCTGTGCGGCAACCGAAAGCCAGCTCTTGTGTCACACCTGCTAACCTT 360
Db |||||

QY 301 GGTGAGCCGCTGTGCGGCAACCGAAAGCCAGCTCTTGTGTCACACCTGCTAACCTT 360
Db |||||

QY 361 TGGCTCGAGGTGTGTTTGGCGCAGGATCACCTATGTGCGCTCTGCTGCTGGAAGT 420
Db |||||

QY 361 TGGCTCGAGGTGTGTTTGGCGCAGGATCACCTATGTGCGCTCTGCTGCTGGAAGT 420
Db |||||

QY 421 GGGGGTAGAGGAGAGTTTCATGACCATGGTGTGGGCATTTGGTCCAGTGTGGGCTGGT 480
Db |||||

Db |||||

QY 421 GGGGGTAGAGGAGAGTTTCATGACCATGGTGTGGGCATTTGGTCCAGTGTGGGCTGGT 480
Db |||||

QY 481 CTGTGTCCCGCTCTAGGCTCAGCAGTAGACACTGGCGTGGAGCGTATGCGCGCGCG 540
Db |||||

QY 481 CTGTGTCCCGCTCTAGGCTCAGCAGTAGACACTGGCGTGGAGCGTATGCGCGCGCG 540
Db |||||

QY 541 GCCCTTCATCTGGGCACTGCTCTTGGGCATCCTCTGAGCCTCTTTTCATCCCCAAGGC 600
Db |||||

QY 541 GCCCTTCATCTGGGCACTGCTCTTGGGCATCCTCTGAGCCTCTTTTCATCCCCAAGGC 600
Db |||||

QY 601 CGGCTGGCTAGCAGGCTGCTGTGCCGAGATCCAGGCCCCCTGGAGCTGGGCACTGCTCAT 660
Db |||||

QY 601 CGGCTGGCTAGCAGGCTGCTGTGCCGAGATCCAGGCCCCCTGGAGCTGGGCACTGCTCAT 660
Db |||||

QY 661 CCTGGCGTGGGCTGCTGGACTTCTGTGGCAGGTGTGCTTCACTCCACTGGAGGCCCT 720
Db |||||

QY 661 CCTGGCGTGGGCTGCTGGACTTCTGTGGCAGGTGTGCTTCACTCCACTGGAGGCCCT 720
Db |||||

QY 721 GCTCTCTGACCTTTCCGGGACCCGAGCACTGTGCCAGGCCCTACTCTGTCTATGCCCTT 780
Db |||||

QY 721 GCTCTCTGACCTTTCCGGGACCCGAGCACTGTGCCAGGCCCTACTCTGTCTATGCCCTT 780
Db |||||

QY 781 CATGATCAGTCTGGGGCTGCTGTGCCGAGATCCAGGCCCCCTGGAGCTGGGCACTGCTCAT 840
Db |||||

QY 781 CATGATCAGTCTGGGGCTGCTGTGCCGAGATCCAGGCCCCCTGGAGCTGGGCACTGCTCAT 840
Db |||||

QY 841 TGGCTGGCCCCCTTACCTGGGCAACCCAGGAGGTGCTCTTTGGCCTGCTCACCTCAT 900
Db |||||

QY 841 TGGCTGGCCCCCTTACCTGGGCAACCCAGGAGGTGCTCTTTGGCCTGCTCACCTCAT 900
Db |||||

QY 901 CTTCTCTACCTGTAGCAGCACACTGTGGTGGCTGAGGAGGAGCGCTGGGCCCCAC 960
Db |||||

QY 901 CTTCTCTACCTGTAGCAGCACACTGTGGTGGCTGAGGAGGAGCGCTGGGCCCCAC 960
Db |||||

QY 961 CGAGCCAGCAGAGGCTGTGGCCCCCTCTTGTGGCCCCACTGTCTCATGCGGCGC 1020
Db |||||

QY 961 CGAGCCAGCAGAGGCTGTGGCCCCCTCTTGTGGCCCCACTGTCTCATGCGGCGC 1020
Db |||||

QY 1021 CCGCTTGGCTTTCCGGAACCTGGGCGCCCTCTTCCCGGCTGCACAGCTGTGCTGCG 1080
Db |||||

QY 1021 CCGCTTGGCTTTCCGGAACCTGGGCGCCCTCTTCCCGGCTGCACAGCTGTGCTGCG 1080
Db |||||

QY 1081 CATGCCCGCACCTCTGCGCGCTCTTGTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Db |||||

QY 1081 CATGCCCGCACCTCTGCGCGCTCTTGTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Db |||||

QY 1141 GACCTTCACGCTGTTTACACGAGTTTCTGGGCGAGGGCTGTACAGGGGGTGGCCAG 1200
Db |||||

QY 1141 GACCTTCACGCTGTTTACACGAGTTTCTGGGCGAGGGCTGTACAGGGGGTGGCCAG 1200
Db |||||

QY 1201 AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGTTCCGATGGGCGCT 1260
Db |||||

QY 1201 AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGTTCCGATGGGCGCT 1260
Db |||||

QY 1261 GGGGCTGTTCTGAGTGCAGCTCGCCATCTCCCTGGTCTTCTCTGTGTCATGAGACCGGCTGGT 1320
Db |||||

QY 1261 GGGGCTGTTCTGAGTGCAGCTCGCCATCTCCCTGGTCTTCTCTGTGTCATGAGACCGGCTGGT 1320
Db |||||

QY 1321 GCAGCGATTCCGCACTCGAGCAGTCTATTTGGCCAGTGTGAGCTTTCCCTGTGGCTGC 1380
Db |||||

QY 1321 GCAGCGATTCCGCACTCGAGCAGTCTATTTGGCCAGTGTGAGCTTTCCCTGTGGCTGC 1380
Db |||||

QY 1381 CGGTGCACATGCTGTGCCACAGTGTGGCGCTGGTGACAGCTTTCAGCGGCCCTCACCGG 1440
Db |||||

QY 1381 CGGTGCACATGCTGTGCCACAGTGTGGCGCTGGTGACAGCTTTCAGCGGCCCTCACCGG 1440
Db |||||

QY 1441 GTTCACTTCTCAGCCCTGACAGATCTCTGCCCTACACTGTGCGCTCTCTTACCAACCGGA 1500
Db |||||

QY 1441 GTTCACTTCTCAGCCCTGACAGATCTCTGCCCTACACTGTGCGCTCTCTTACCAACCGGA 1500
Db |||||

QY 1501 GAAGCAGGTGTTCTGTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGACAG 1560
Db |||||

Db 1501 GAAGCAGGTGTTCTGTCGCAAAATACCGAGGGGACACTGAGAGTGTCTAGCAGTGGAGCAG 1560
Qy 1561 CCTGATGACCAAGCTTCTGCGCAGGCCCCTAAGCCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
Db 1561 CCTGATGACCAAGCTTCTGCGCAGGCCCCTAAGCCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
Qy 1621 GGGTGTGGAGCAGTGGCTGCTCCCACTCCACCCGCGCTCTGCGGGGCTCTGCTG 1680
Db 1621 GGGTGTGGAGCAGTGGCTGCTCCCACTCCACCCGCGCTCTGCGGGGCTCTGCTG 1680
Qy 1681 TGATGTCTCCGTACGTGTGGTGGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCG 1740
Db 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCG 1740
Qy 1741 GGGCATCTGCGCTGACCTCGCCATCTCGATGAGTGCCTTCTGCTGTCCCAAGTGGCCCC 1800
Db 1741 GGGCATCTGCGCTGACCTCGCCATCTCGATGAGTGCCTTCTGCTGTCCCAAGTGGCCCC 1800
Qy 1801 ATCCCTGTTATGGGCTCCATGTCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Db 1801 ATCCCTGTTATGGGCTCCATGTCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Qy 1861 TGCCGCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGTAGTATTTGACAAG 1920
Db 1861 TGCCGCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGTAGTATTTGACAAG 1920
Qy 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATCTTCAGACACATTTGGGGTGGAGGGCTGCCT 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATCTTCAGACACATTTGGGGTGGAGGGCTGCCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCTCTGTAGCCCATGGGGTGGCGGCTGGCGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCTCTGTAGCCCATGGGGTGGCGGCTGGCGCCAGT 2040
Qy 2041 TTCTGTGTGCGCAAAAGTAATGTGGCTCTGTGTCGCAACCCCTGTGCTGAGGTGGTA 2100
Db 2041 TTCTGTGTGCGCAAAAGTAATGTGGCTCTGTGTCGCAACCCCTGTGCTGAGGTGGTA 2100
Qy 2101 GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCCCTGCTCCTAGGCTGAGGCTGCTG 2160
Db 2101 GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Qy 2221 ATGCACTGGATGGAGGACTCTGCAAGTGGATTTACCAGGCTCAGGGTTAACAGCTAGC 2280
Db 2221 ATGCACTGGATGGAGGACTCTGCAAGTGGATTTACCAGGCTCAGGGTTAACAGCTAGC 2280
Qy 2281 CTCCTAGTTGAGACACACCTAGAGAAGGTTTTTGGGAGCTGTAATAAACTCAGTCACTG 2340
Db 2281 CTCCTAGTTGAGACACACCTAGAGAAGGTTTTTGGGAGCTGTAATAAACTCAGTCACTG 2340
Qy 2341 GTTTCCCATCTTAAGCCCTTAACTGCAAGCTTCTGTTAATGTAGCTTCTTGCATGGGAG 2400
Db 2341 GTTTCCCATCTTAAGCCCTTAACTGCAAGCTTCTGTTAATGTAGCTTCTTGCATGGGAG 2400
Qy 2401 TTTCTAGATGAACACTCTCTCCATGGGATTTGAACATATGACTATTTGTAGGGGAAGA 2460
Db 2401 TTTCTAGATGAACACTCTCTCCATGGGATTTGAACATATGACTATTTGTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACAGAACCAAGTCCCTCAGCCACAGCACTGCTTTTTGCT 2520
Db 2461 GTCTGAGGGGCAACACAGAACCAAGTCCCTCAGCCACAGCACTGCTTTTTGCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGGCTGTTGGTCTTCTGTTGCCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGGCTGTTGGTCTTCTGTTGCCATCA 2580
Qy 2581 CAGAGACACAGGCAATTAATAATTTAACTTATTTTAACTTATTTAACTTATTTAACTTATTT 2640
Db 2581 CAGAGACACAGGCAATTTAAATTTAACTTATTTTAACTTATTTAACTTATTTAACTTATTT

Qy 2641 TGCTAGCTTTTCTGTGTGTGTCTAATAATTTGGGTAGGGTGGGGATCCCCAACATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGTGTCTAATAATTTGGGTAGGGTGGGGATCCCCAACATCA 2700
Qy 2701 GGTCCCCCTGAGATAGCTGTGTCATTTGGGCTGATCATTTGCCAGAAATCTTCTTCTCCTGGGT 2760
Db 2701 GGTCCCCCTGAGATAGCTGTGTCATTTGGGCTGATCATTTGCCAGAAATCTTCTTCTCCTGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCCAAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCCAAATGATAAT 2820
Qy 2821 TCCAAATGCTTGTACCCCAAGTGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTTGTACCCCAAGTGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAACGGCTTCCCTAACCAACCCCTCTTCTTGGGCCAGCCTGGTTCCCCCACTTCCA 2940
Db 2881 CTCAACGGCTTCCCTAACCAACCCCTCTTCTTGGGCCAGCCTGGTTCCCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCAAACTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
Db 3001 CCCAACTTTCCCTTACCCCAAACTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
Qy 3061 GCAGGACCAAGACAAAGTGGGTTTCCCAAGCCTTTGTTCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGGACCAAGACAAAGTGGGTTTCCCAAGCCTTTGTTCATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTGCTGGGNACTCTCACAGAACTCAGAGGACACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTGGGNACTCTCACAGAACTCAGAGGACACCCCTGCTGAGCTAAGG 3180
Qy 3181 GAGTCTTATCTCTCAGGGGGGGTTTAAAGTGGCTTTTGAATAATGTCTGCTTATTATT 3240
Db 3181 GAGTCTTATCTCTCAGGGGGGGTTTAAAGTGGCTTTTGAATAATGTCTGCTTATTATT 3240
Qy 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy 3301 AAATTTAAAGCTTCTCTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTTAAAGCTTCTCTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AA 3410
Db 3361 AA 3410

RESULT 10

US-09-115-453-110
; Sequence 110, Application US/09115453B
; Patent No. 6657056
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-115-453-110

Query Match		100.0%;	Score 3409.6;	DB 4;	Length 3410;		
Best Local Similarity		100.0%;	Pred. No. 0;				
Matches 3410;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;		
Qy	1	GGGAACCAAGCTGCAAGCGCTGGCTCCGGGTGACAGCCGCGGCTCGGCCAGAGATCTGA	60				
Db	1	GGGAACCAAGCTGCAAGCGCTGGCTCCGGGTGACAGCCGCGGCTCGGCCAGAGATCTGA	60				
Qy	61	GTGATGACAGCTGTCCCACTGAGGTGCCACACGACGAGGTGTGAGCATGGGCTGAG	120				
Db	61	GTGATGACAGCTGTCCCACTGAGGTGCCACACGACGAGGTGTGAGCATGGGCTGAG	120				
Qy	121	AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGGACGTT	180				
Db	121	AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGGACGTT	180				
Qy	181	GGCGCAGCAGGAGGAGGCGCAGCTTCTGGAGCAGAGCCGAGAGCGAAGCAGTTCTG	240				
Db	181	GGCGCAGCAGGAGGAGGCGCAGCTTCTGGAGCAGAGCCGAGAGCGAAGCAGTTCTG	240				
Qy	241	GAGTCCCTGAACGGCCCTGAGCCCTACCCGCTGGCCCACTATGNTCCAGAGGCTGTG	300				
Db	241	GAGTCCCTGAACGGCCCTGAGCCCTACCCGCTGGCCCACTATGNTCCAGAGGCTGTG	300				
Qy	301	GGTGAGCGCCTGTCTGCGGCACCGGAAAGCCAGCTCTTGTGTCAACCTGCTAAACCTT	360				
Db	301	GGTGAGCGCCTGTCTGCGGCACCGGAAAGCCAGCTCTTGTGTCAACCTGCTAAACCTT	360				
Qy	361	TGGCCTGAGAGTGTGTTGGCGCAGGCAATCACTATGTGCGCCTCTGTCTGTGGAAGT	420				
Db	361	TGGCCTGAGAGTGTGTTGGCGCAGGCAATCACTATGTGCGCCTCTGTCTGTGGAAGT	420				
Qy	421	GGGGGTAGAGGAGAGTTTCATGACCATGCTGCGGCAATGGTCAGAGTGGGCTGGT	480				
Db	421	GGGGGTAGAGGAGAGTTTCATGACCATGCTGCGGCAATGGTCAGAGTGGGCTGGT	480				
Qy	481	CTGTGTCGCGCTCTTAGGCTCAGCCAGTGACCACTGGCGTGGAAGCTATGGCCGCGCG	540				
Db	481	CTGTGTCGCGCTCTTAGGCTCAGCCAGTGACCACTGGCGTGGAAGCTATGGCCGCGCG	540				
Qy	541	GCCCTTCATCTGGGCACTGTCTTGGGCAATCTGTGAGCCTCTTCTCATCCCAAGGCG	600				
Db	541	GCCCTTCATCTGGGCACTGTCTTGGGCAATCTGTGAGCCTCTTCTCATCCCAAGGCG	600				
Qy	601	CGGCTGGCTTAGCAGGCTGTGTGCCGATCCAGGCCCCCTGGAGCTGGCACTGCTCAT	660				
Db	601	CGGCTGGCTTAGCAGGCTGTGTGCCGATCCAGGCCCCCTGGAGCTGGCACTGCTCAT	660				
Qy	661	CTTGGGCGTGGGCTGTGGACTTCTGTGGCAGGCTGTCTCACTCCACTGGAGGCGCT	720				
Db	661	CTTGGGCGTGGGCTGTGGACTTCTGTGGCAGGCTGTCTCACTCCACTGGAGGCGCT	720				
Qy	721	GCTCTGACCTCTTCCGGGACCCGAGACCACTGTGCCAGGCTACTCTGTCTATGGCTT	780				
Db	721	GCTCTGACCTCTTCCGGGACCCGAGACCACTGTGCCAGGCTACTCTGTCTATGGCTT	780				
Qy	781	CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGACTGGGACACCAG	840				
Db	781	CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGACTGGGACACCAG	840				
Qy	841	TGCCCTGGCCCCCTACCTGGGACCCAGGAGGAGTGCCTCTTTGGGCTGTCTCACCCTCAT	900				
Db	841	TGCCCTGGCCCCCTACCTGGGACCCAGGAGGAGTGCCTCTTTGGGCTGTCTCACCCTCAT	900				
Qy	901	CTTCTCTACCTCTGAGAGCACAATCTGCTGGTGGCTGAGGAGGAGGCTGGGCCCCAC	960				
Db	901	CTTCTCTACCTCTGAGAGCACAATCTGCTGGTGGCTGAGGAGGAGGCTGGGCCCCAC	960				
Qy	961	CGAGCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCACTGCTGTCCATGGCGGGC	1020				
Db	961	CGAGCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCACTGCTGTCCATGGCGGGC	1020				

Qy	1021	CCGCTTGGCTTCCGGAACCTTGGCGGCCCTGTCTTCCCGGCTGACCAAGCTGTGTGTCGC	1080				
Db	1021	CCGCTTGGCTTCCGGAACCTTGGCGGCCCTGTCTTCCCGGCTGACCAAGCTGTGTGTCGC	1080				
Qy	1081	CATGCCCGCACCTTGGCGGCCCTTTCGTGGCTGAGCTGTGACGCTGGATGGACACTCAT	1140				
Db	1081	CATGCCCGCACCTTGGCGGCCCTTTCGTGGCTGAGCTGTGACGCTGGATGGACACTCAT	1140				
Qy	1141	GACCTTCAAGCTGTTTACACGAGTTTCGTGGCGAGGGCTGTACACAGGCGCTGCCAG	1200				
Db	1141	GACCTTCAAGCTGTTTACACGAGTTTCGTGGCGAGGGCTGTACACAGGCGCTGCCAG	1200				
Qy	1201	AGCTGAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGGCGTTCCGATGGGAGCCT	1260				
Db	1201	AGCTGAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGGCGTTCCGATGGGAGCCT	1260				
Qy	1261	GGGCTGTTCCTGAGTGGCCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCTGGT	1320				
Db	1261	GGGCTGTTCCTGAGTGGCCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCTGGT	1320				
Qy	1321	GCAGCGATTCCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC	1380				
Db	1321	GCAGCGATTCCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC	1380				
Qy	1381	CGGTGCCACATGCTGTGCCACAGTGTGGCGTGGTGAAGCTTTCAGCGGCCCTCACCGG	1440				
Db	1381	CGGTGCCACATGCTGTGCCACAGTGTGGCGTGGTGAAGCTTTCAGCGGCCCTCACCGG	1440				
Qy	1441	GTTTCACTTCTCAGCGCTGCGATCTCCCTCACACTGGCGCTCCCTTACCAACCGGA	1500				
Db	1441	GTTTCACTTCTCAGCGCTGCGATCTCCCTCACACTGGCGCTCCCTTACCAACCGGA	1500				
Qy	1501	GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGAC	1560				
Db	1501	GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGAC	1560				
Qy	1561	CCTGATGACCAAGCTTCTGCGAGCCCTTAAGCTGGAGCTCCCTTCCCTAATGAGACAGT	1620				
Db	1561	CCTGATGACCAAGCTTCTGCGAGCCCTTAAGCTGGAGCTCCCTTCCCTAATGAGACAGT	1620				
Qy	1621	GGGTGCTGGAGGAGTGGCGCTCCCACTCCAGCGCTCTGCGGGGCTCTGCGCTG	1680				
Db	1621	GGGTGCTGGAGGAGTGGCGCTCCCACTCCAGCGCTCTGCGGGGCTCTGCGCTG	1680				
Qy	1681	TGATGTCTCCGTACGTGTGGTGGGTGAGCCCAACCGAGGCTGGTTCGCGGGCGG	1740				
Db	1681	TGATGTCTCCGTACGTGTGGTGGGTGAGCCCAACCGAGGCTGGTTCGCGGGCGG	1740				
Qy	1741	GGGCACTGCTGGAACCTCGCCATCTCGGATAGTGCCTTCTGCTGCCAGGTGGCCCC	1800				
Db	1741	GGGCACTGCTGGAACCTCGCCATCTCGGATAGTGCCTTCTGCTGCCAGGTGGCCCC	1800				
Qy	1801	ATCCCTCTTATGGGCTCCATTTGCTCAGCTCAGCCAGTCTGCTCATATATGGTCTC	1860				
Db	1801	ATCCCTCTTATGGGCTCCATTTGCTCAGCTCAGCCAGTCTGCTCATATATGGTCTC	1860				
Qy	1861	TGCCGAGGCTGGGTCTGGTGGCAATTTACTTTGCTACACAGGTAGTATTTGACAAG	1920				
Db	1861	TGCCGAGGCTGGGTCTGGTGGCAATTTACTTTGCTACACAGGTAGTATTTGACAAG	1920				
Qy	1921	CGACTTGGCCAAATATCTCAGGCTAGAAAATTTCCAGACATTTGGGGTGGAGGGCTGCT	1980				
Db	1921	CGACTTGGCCAAATATCTCAGGCTAGAAAATTTCCAGACATTTGGGGTGGAGGGCTGCT	1980				
Qy	1981	CAGTGGTCCAGCTCCCGCTCTGTTAGCCCCCATGGGGCTGCCCGCCAGT	2040				
Db	1981	CAGTGGTCCAGCTCCCGCTCTGTTAGCCCCCATGGGGCTGCCCGCCAGT	2040				
Qy	2041	TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGTGCTGCCACCCCTGTGCTGAGGTGCGTA	2100				
Db	2041	TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGTGCTGCCACCCCTGTGCTGAGGTGCGTA	2100				
Qy	2101	GCTGCACAGCTGGGGGCTGGGGGCTGCTCTCTCTCCCCCAGTCTCTAGGGGCTGCTG	2160				


```
Db 2101 GCTGACAGCTGGGGGCTGGGGCGTCCCTCTCTCTCCAGCTCTCTAGGGCTGCGCTG 2160
Qy 2161 ACTGAGGCTTCAAGGGGTTTCAGTCTGCACTTATACAGGAGGAGCCAGAGGGCTCC 2220
Db 2161 ACTGAGGCTTCAAGGGGTTTCAGTCTGCACTTATACAGGAGGAGCCAGAGGGCTCC 2220
Qy 2221 ATGCACTGGAAATCGGGGACTCTCAGGTGGAATACCCAGGCTCAGGGTTAAACAGTAGC 2280
Db 2221 ATGCACTGGAAATCGGGGACTCTCAGGTGGAATACCCAGGCTCAGGGTTAAACAGTAGC 2280
Qy 2281 CTCCTAGTTGAGACACACCTAGAGAGGGTTTTGGGAGCTGAATAAAGTCAAGTCACTG 2340
Db 2281 CTCCTAGTTGAGACACACCTAGAGAGGGTTTTGGGAGCTGAATAAAGTCAAGTCACTG 2340
Qy 2341 GTTTCCCATCTCTAAGCCCTTAACCTGCACTGCTGTTTAATGATGCTCTTGCATGGAG 2400
Db 2341 GTTTCCCATCTCTAAGCCCTTAACCTGCACTGCTGTTTAATGATGCTCTTGCATGGAG 2400
Qy 2401 TTTCTAGGATGAACACTCTCTCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Db 2401 TTTCTAGGATGAACACTCTCTCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 GTCCTGAGGGCAACACACAAGAACCCAGGTCCCTCAGCCACACAGCACTGTCTTTTGCT 2520
Db 2461 GTCCTGAGGGCAACACACAAGAACCCAGGTCCCTCAGCCACACAGCACTGTCTTTTGCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGCGCTGTGTGTCCTCTGTGTCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGCGCTGTGTGTCCTCTGTGTCATCA 2580
Qy 2581 CAGAGACACAGGCAATTAATAATTAATTAATTTAATAAAGTAGAGGGGAATCCAT 2640
Db 2581 CAGAGACACAGGCAATTAATAATTAATTAATTTAATAAAGTAGAGGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGTGCTCTAATATATTTGGGTAGGGTGGGGATGCCAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGTGCTCTAATATATTTGGGTAGGGTGGGGATGCCAACAATCA 2700
Qy 2701 GGTCCCTGAGATAGCTGCTATTTGGGTGATCATTCGCAAGATCTTCTCTCTGCGGT 2760
Db 2701 GGTCCCTGAGATAGCTGCTATTTGGGTGATCATTCGCAAGATCTTCTCTCTGCGGT 2760
Qy 2761 CTGCCCCCACAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAAAATGATAAT 2820
Db 2761 CTGCCCCCACAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAAAATGATAAT 2820
Qy 2821 TCCAAATGCTGTTTACCAAGTTAGGGTGTGAAAGGAGTGAAGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTTTACCAAGTTAGGGTGTGAAAGGAGTGAAGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAACGGCTTCCCTAACCAACCTCTCTCTTGGCCAGGCTGTTCCCCCACTTCCA 2940
Db 2881 CTCAACGGCTTCCCTAACCAACCTCTCTCTTGGCCAGGCTGTTCCCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTACC 3000
Db 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGTACT 3060
Db 3001 CCCAACTTTCCCTTACCCCACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGTACT 3060
Qy 3061 GCAGGACGAGACACAAAGTGGGTTTCCCAAGCTTTGTCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGGACGAGACACAAAGTGGGTTTCCCAAGCTTTTCCCAAGCTTTGTCATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTGCTTGGGGAATCTCACAGAAACTCAGGAGCAACCCCTGCCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTTGGGGAATCTCACAGAAACTCAGGAGCAACCCCTGCCTGAGCTAAGG 3180
Qy 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTCCGTTTGCATAATATGTCGCTTATTTATT 3240
```

```
Db 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTCCGTTTGAATATATGTCGCTTATTTATT 3240
Qy 3241 TAGCGGGTGAATATTTTATCTAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db 3241 TAGCGGGTGAATATTTTATCTAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy 3301 AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Qy 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410

RESULT 11
US-09-688-489-110
; Sequence 110, Application US/09688489
; Patent No. 6664377
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427D2
; CURRENT APPLICATION NUMBER: US/09/688,489
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-688-489-110
```

```
Query Match 100.0%; Score 3409.6; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGAAACAGGCTGACGCGCTGCGGTGACAGCCGCGCGCTCGGCAGGATCTGA 60
Db 1 GGGAAACAGGCTGACGCGCTGCGGTGACAGCCGCGCGCTCGGCAGGATCTGA 60
Qy 61 GTGATGAGAGCTGTCCCACTGAGGTGCCACAGCAGCAGGTGTTTTCAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTGAGGTGCCACAGCAGCAGGTGTTTTCAGCATGGCTGAG 120
Qy 121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT 180
Db 121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT 180
Qy 181 GCGGCGACGAGAGAGAGAGGCGCGAGCTTCTGAGCAGAGCGCAGAGCAGAGCTTCTG 240
Db 181 GCGGCGACGAGAGAGAGAGGCGCGAGCTTCTGAGCAGAGCGCAGAGCAGAGCTTCTG 240
Qy 241 GAGTGTCTGAACCGCCCTGAGCCTACCCGCTGCGCCACTATGTCAGAGGCTGTG 300
Db 241 GAGTGTCTGAACCGCCCTGAGCCTACCCGCTGCGCCACTATGTCAGAGGCTGTG 300
Qy 301 GGTGAGCGGCTCTGCGGCACCGGAAAGCCAGCTCTTCTGCTGCTCAACCTGCTAACCTT 360
Db 301 GGTGAGCGGCTCTGCGGCACCGGAAAGCCAGCTCTTCTGCTGCTCAACCTGCTAACCTT 360
Qy 361 TGGCCTGAGAGGTGTTTGGCCGAGGATCACCTATGTCGCGCTCTGCTGCTGGAAGT 420
Db 361 TGGCCTGAGAGGTGTTTGGCCGAGGATCACCTATGTCGCGCTCTGCTGCTGGAAGT 420
Qy 421 GGGGGTAGAGGAGAGTTCATGACCATGTCGTCGGCATTTGGTCCAGTGTGCGCTGGT 480
Db 421 GGGGGTAGAGGAGAGTTCATGACCATGTCGTCGGCATTTGGTCCAGTGTGCGCTGGT 480
Qy 481 CTGTGTCGCTCTCTAGGCTCAGCCAGTGACCACTGGCGGTGGAGCTATGCGCGCGCGCG 540
```

Db	481		CTGTGTC	CGCGTCT	CCTAGG	CTCAGC	CAGTGC	ACCACT	GTGG	CTGG	AGCG	CTAT	GGCG	CGCG	CGCG	540		
Qy	541		GCCCTT	CATCT	TGGG	CACT	GTCT	TGGG	CACT	CTCT	GTAG	CGCT	CTTT	CTCAT	CCCA	AGGGC	600	
Db	541		GCCCTT	CATCT	TGGG	CACT	GTCT	TGGG	CACT	CTCT	GTAG	CGCT	CTTT	CTCAT	CCCA	AGGGC	600	
Qy	601		CGGCTG	CTAG	CAGG	GTCT	GTGT	GCCCGG	ATCCC	CAGG	CCCT	GTGAG	CTGG	CAGCTG	GGCA	CTGTCT	CAT	660
Db	601		CGGCTG	CTAG	CAGG	GTCT	GTGT	GCCCGG	ATCCC	CAGG	CCCT	GTGAG	CTGG	CAGCTG	GGCA	CTGTCT	CAT	660
Qy	661		CTTGGG	CGTGGG	GTCT	GTGA	CTTCT	GTGG	CAAG	TGTCT	TCA	CTTCA	CTG	AGG	CGCCT	720		
Db	661		CTTGGG	CGTGGG	GTCT	GTGA	CTTCT	GTGG	CAAG	TGTCT	TCA	CTTCA	CTG	AGG	CGCCT	720		
Qy	721		GCTCT	CTG	ACTCT	TTCC	GGG	GAC	CCGG	ACCA	CTGT	CGC	AGG	CCCT	ACT	CTCT	CTAT	780
Db	721		GCTCT	CTG	ACTCT	TTCC	GGG	AC	CCGG	ACCA	CTGT	CGC	AGG	CCCT	ACT	CTCT	CTAT	780
Qy	781		CATGAT	CAGT	CTTT	GGG	GGCT	GCCT	TGGG	CTAC	CTCT	GCCT	GCCA	TTC	GAT	TGGG	GAC	840
Db	781		CATGAT	CAGT	CTTT	GGG	GGCT	GCCT	TGGG	CTAC	CTCT	GCCT	GCCA	TTC	GAT	TGGG	GAC	840
Qy	841		TGCCCT	TGGG	CCCT	CTA	CTT	GGG	CA	CCCA	AGG	AGT	GTCT	CTTT	GGC	CTGT	CTA	900
Db	841		TGCCCT	TGGG	CCCT	CTA	CTT	GGG	CA	CCCA	AGG	AGT	GTCT	CTTT	GGC	CTGT	CTA	900
Qy	901		CTTCT	CTC	ACT	CGT	TAG	AC	CCCA	CAC	TGCT	GTGG	CTG	AGG	AGG	CA	CGCT	960
Db	901		CTTCT	CTC	ACT	CGT	TAG	AC	CCCA	CAC	TGCT	GTGG	CTG	AGG	AGG	CA	CGCT	960
Qy	961		CGAG	CCAG	CAGA	AGGG	GTGT	CGG	CCCT	CTCT	TGT	CGC	CCCA	CTG	CTGT	CCAT	GCCGG	1020
Db	961		CGAG	CCAG	CAGA	AGGG	GTGT	CGG	CCCT	CTCT	TGT	CGC	CCCA	CTG	CTGT	CCAT	GCCGG	1020
Qy	1021		CCGCTT	TGGCTTT	CCG	GA	ACTT	GG	CG	CCCT	CTCT	TGT	CGC	CCCA	CTG	CTGT	CCAT	1080
Db	1021		CCGCTT	TGGCTTT	CCG	GA	ACTT	GG	CG	CCCT	CTCT	TGT	CGC	CCCA	CTG	CTGT	CCAT	1080
Qy	1081		CATG	CCCC	GC	AC	CTT	CG	CG	CGCT	CTT	CTGT	GG	CTG	AG	CTGT	G	1140
Db	1081		CATG	CCCC	GC	AC	CTT	CG	CG	CGCT	CTT	CTGT	GG	CTG	AG	CTGT	G	1140
Qy	1141		GAC	CTT	CAC	GT	TTTT	TAC	AC	CG	ATTT	CTGT	GGG	AGG	GGCT	GT	TAC	1200
Db	1141		GAC	CTT	CAC	GT	TTTT	TAC	AC	CG	ATTT	CTGT	GGG	AGG	GGCT	GT	TAC	1200
Qy	1201		AGT	G	AGC	CGG	GCA	CCG	AG	CCCG	AG	CA	CTAT	GAT	GA	AGG	CGTT	1260
Db	1201		AGT	G	AGC	CGG	GCA	CCG	AG	CCCG	AG	CA	CTAT	GAT	GA	AGG	CGTT	1260
Qy	1261		GGG	CT	GT	TCT	GT	CAG	TG	CGG	CA	CTCT	CC	TGT	CTCT	CT	G	1320
Db	1261		GGG	CT	GT	TCT	GT	CAG	TG	CGG	CA	CTCT	CC	TGT	CTCT	CT	G	1320
Qy	1321		GC	AG	CG	AT	TCGG	CA	CTG	CA	TAT	TTGG	CC	AG	GTG	CG	AG	1380
Db	1321		GC	AG	CG	AT	TCGG	CA	CTG	CA	TAT	TTGG	CC	AG	GTG	CG	AG	1380
Qy	1381		CGG	T	G	CC	A	C	A	G	T	G	G	C	C	G	T	1440
Db	1381		CGG	T	G	CC	A	C	A	G	T	G	G	C	C	G	T	1440
Qy	1441		G	T	T	C	A	C	T	T	C	A	G	T	G	G	C	1500
Db	1441		G	T	T	C	A	C	T	T	C	A	G	T	G	G	C	1500
Qy	1501		G	A	G	C	A	G	T	G	T	T	C	C	C	C	A	1560
Db	1501		G	A	G	C	A	G	T	G	T	T	C	C	C	C	A	1560
Qy	1561		CCT	GAT	G	ACC	AG	CTT	CT	G	C	AG	CC	CT	TA	G	1620	
Db	1561		CCT	GAT	G	ACC	AG	CTT	CT	G	C	AG	CC	CT	TA	G	1620	

[illegible]

[illegible]

RESULT 12

US-09-679-426-110
; Sequence 110, Application US/09679426
; Patent No. 6759515

FACEBOOK NO. 8739313
: GENERAL INFORMATION:

GENERAL INFORMATION:	
APPLICANT:	Xu, Jiangchun
APPLICANT:	Dillon, Devin C.
APPLICANT:	Mitcham, Jennifer L.
APPLICANT:	Harlocker, Susan L.
APPLICANT:	Jiang, Yuqi
APPLICANT:	Henderson, Robert A.
APPLICANT:	Kalos, Michael D.
APPLICANT:	Fanger, Gary R.
APPLICANT:	Retter, Marc W.
APPLICANT:	Stolk, John A.
APPLICANT:	Day, Craig H.
APPLICANT:	Vedvick, Thomas S.
APPLICANT:	Carter, Darrick
APPLICANT:	Li, Samuel
APPLICANT:	Wang, Aijun
APPLICANT:	Skealy, Yasir A.W.
APPLICANT:	Hepler, William

REFICANT. neper, William
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

FILE REFERENCE: 210121.427C20

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

; CURRENT FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 895

```

; NUMBER OF SEQ ID NOS: 895
: SOFTWARE: FastSEO for Windows Version 3.0

```

; COL INPR: 10
; SEO ID NO 110

```

; SEQ ID NO 110
; LENGTH: 3410

```

```

; LENGTH: 3
; TYPE: DNA

```

```

; TYPE: DNA
; ORGANISM: Homo sapien

```

; ORGANISM: HUM
 IIS-09-679-426-110

Query Match 100.0%; Score 3409.6; DB 4; Length 3410;

Best Local Similarity 100.0%; Pred. No. 0;

Best Local Similarity 100.0%, Rec. NO: 0,
Matches 3410: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Qy	1	GGGAA	CAGCCTT	GCA	CGCGCT	TGGCT	CCGGT	GTA	CAGCGCGCGCT	CCGGC	CAGGAT	CTGA	60			
Db	1	GGGAA	CAGCCTT	GCA	CGCGCT	TGGCT	CCGGT	GTA	CAGCGCGCGCT	CCGGC	CAGGAT	CTGA	60			
Qy	61	GTGAT	GAGAC	GTGT	CCCA	CTG	AGGT	GC	CCCA	CAGCAGCAG	GTGT	TGAGCAT	TGGCTGAG	120		
Db	61	GTGAT	GAGAC	GTGT	CCCA	CTG	AGGT	GC	CCCA	CAGCAGCAG	GTGT	TGAGCAT	TGGCTGAG	120		
Qy	121	AAGCT	GAC	CGGCA	CCAAA	GGCTT	GGCAG	AAAT	TGGCGCCT	TGGCT	TGAT	TCTT	CCTAGGCAGTT	180		
Db	121	AAGCT	GAC	CGGCA	CCAAA	GGCTT	GGCAG	AAAT	TGGCGCCT	TGGCT	TGAT	TCTT	CCTAGGCAGTT	180		
Qy	181	GGCGG	CAGC	AAGG	AGAG	CGCC	AGCTT	CT	TGAGCAG	AGCCG	CAGAG	CGA	AGCAGTTCTG	240		
Db	181	GGCGG	CAGC	AAGG	AGAG	CGCC	AGCTT	CT	TGAGCAG	AGCCG	CAGAG	CGA	AGCAGTTCTG	240		
Qy	241	GAGT	GCC	TGA	ACCG	CCCT	TAG	CCCT	TAG	CCCT	TAG	CCCT	TAG	300		
Db	241	GAGT	GCC	TGA	ACCG	CCCT	TAG	CCCT	TAG	CCCT	TAG	CCCT	TAG	300		
Qy	301	GGT	AGC	CGCCT	TGCT	GGGCA	CCGGA	AAGCC	AGCTT	CTT	GTG	GTCA	CACTGCTTAACCTT	360		
Db	301	GGT	AGC	CGCCT	TGCT	GGGCA	CCGGA	AAGCC	AGCTT	CTT	GTG	GTCA	CACTGCTTAACCTT	360		
Qy	361	TGGCT	CTG	AGGT	GTGTT	TGG	CCG	CAGG	CAT	CA	CTAT	TGT	CGCCTCTGCTGCTGGAAGT	420		
Db	361	TGGCT	CTG	AGGT	GTGTT	TGG	CCG	CAGG	CAT	CA	CTAT	TGT	CGCCTCTGCTGCTGGAAGT	420		
Qy	421	GGGGT	AGAG	AGAA	GTTC	TGAC	CAAT	TGGT	CT	GGGCAT	TGGT	TCAGT	CTGTGGGCTGTGT	480		
Db	421	GGGGT	AGAG	AGAA	GTTC	TGAC	CAAT	TGGT	CT	GGGCAT	TGGT	TCAGT	CTGTGGGCTGTGT	480		
Qy	481	CTGT	GTCC	CGCT	CCT	TAG	GGCT	CAGC	AGTG	ACCA	CT	TGGCGTG	AGCCTAT	TGGCCGCGCCG	540	
Db	481	CTGT	GTCC	CGCT	CCT	TAG	GGCT	CAGC	AGTG	ACCA	CT	TGGCGTG	AGCCTAT	TGGCCGCGCCG	540	
Qy	541	GCCTT	T	CAT	CT	GGGCA	CTGCT	T	GGGCA	CTGCT	T	CAT	CTCCCAAGGCG	600		
Db	541	GCCTT	T	CAT	CT	GGGCA	CTGCT	T	GGGCA	CTGCT	T	CAT	CTCCCAAGGCG	600		
Qy	601	CGGCT	GCT	AGC	AGGCT	GTCT	GTCC	CGGAT	CCCA	AGGCCCC	CT	TGAGCT	GGGCACTGCTCAT	660		
Db	601	CGGCT	GCT	AGC	AGGCT	GTCT	GTCC	CGGAT	CCCA	AGGCCCC	CT	TGAGCT	GGGCACTGCTCAT	660		
Qy	661	CTT	GGGCGT	TGGGGT	GTGT	GGA	CTT	CT	TGGC	CAGGT	GTGCTT	CACT	TCCACT	GGAGGCCCT	720	
Db	661	CTT	GGGCGT	TGGGGT	GTGT	GGA	CTT	CT	TGGC	CAGGT	GTGCTT	CACT	TCCACT	GGAGGCCCT	720	
Qy	721	GCT	CT	TGA	CCT	CTT	TCGGG	AC	CGGAC	CA	CTGT	CGCC	CAGGCT	TA	CTGTCTATG	780
Db	721	GCT	CT	TGA	CCT	CTT	TCGGG	AC	CGGAC	CA	CTGT	CGCC	CAGGCT	TA	CTGTCTATG	780
Qy	781	CAT	GAT	CAGT	CTT	TGGGG	GT	CGCT	TGGG	CT	ACCT	CT	CGCT	TGGG	CAC	840
Db	781	CAT	GAT	CAGT	CTT	TGGGG	GT	CGCT	TGGG	CT	ACCT	CT	CGCT	TGGG	CAC	840
Qy	841	TGCCCT	T	GGCC	CCCT	T	ACCT	TGGG	CA	CCCA	AGGAG	GGT	TGCC	CTT	T	900

Db 841 |||||TGCCCTGCCCCCTACCTAGGACCCAGGAGAGTGCCTCTTTGGCCCTGCTCACCCCTCAT 900
 Qy 901 CTTTCTCAGCTGCTAGCAGCACAACACTGCTGTGTGCTGAGGAGGAGCGCTGGGGCCCCAC 960
 Db 901 CTTTCTCAGCTGCTAGCAGCACAACACTGCTGTGTGCTGAGGAGGAGCGCTGGGGCCCCAC 960
 Qy 961 CGAGCCAGCAGAGGGCTGTGCGGCCCTCTTTGTGCGCCCACTGCTGTCCAATGCCGGC 1020
 Db 961 CGAGCCAGCAGAGGGCTGTGCGGCCCTCTTTGTGCGCCCACTGCTGTCCAATGCCGGC 1020
 Qy 1021 CCGCTTGGCTTTCGGAACCTGGGGCCCTGCTTCCCGGGCTGACACAGCTGTGTGCGG 1080
 Db 1021 CCGCTTGGCTTTCGGAACCTGGGGCCCTGCTTCCCGGGCTGACACAGCTGTGTGCGG 1080
 Qy 1081 CATGCCCGCACCTCGCGCCGCTCTTGTGTGCTGAGCTGTGCAGCTGTGATGGCACTCAT 1140
 Db 1081 CATGCCCGCACCTCGCGCCGCTCTTGTGTGCTGAGCTGTGCAGCTGTGATGGCACTCAT 1140
 Qy 1141 GACCTTCAAGCTGTTTACACGGATTTTGTGGGCGAGGGCTGTACCAAGGGCGTCCCAG 1200
 Db 1141 GACCTTCAAGCTGTTTACACGGATTTTGTGGGCGAGGGCTGTACCAAGGGCGTCCCAG 1200
 Qy 1201 AGCTGAGCCGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTTCGATGGGCGAGCT 1260
 Db 1201 AGCTGAGCCGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTTCGATGGGCGAGCT 1260
 Qy 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGCTCTTCTGCTGCTATGACCGGCTGGT 1320
 Db 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGCTCTTCTGCTGCTATGACCGGCTGGT 1320
 Qy 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC 1380
 Db 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC 1380
 Qy 1381 CGGTGGCACATGCTGTCCACAGTGTGGCCGTGTGTGACAGCTTCAGCGGCCCTCACCGG 1440
 Db 1381 CGGTGGCACATGCTGTCCACAGTGTGGCCGTGTGTGACAGCTTCAGCGGCCCTCACCGG 1440
 Qy 1441 GTTCACTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGA 1500
 Db 1441 GTTCACTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGA 1500
 Qy 1501 GAAGCAGGTGTTCTGCCCAATAACGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
 Db 1501 GAAGCAGGTGTTCTGCCCAATAACGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
 Qy 1561 CCTGATGACAGCTTCTGCCAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATGGACAGT 1620
 Db 1561 CCTGATGACAGCTTCTGCCAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATGGACAGT 1620
 Qy 1621 GGGTGTGGAGCAGTGGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
 Db 1621 GGGTGTGGAGCAGTGGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
 Qy 1681 TGATGTCTCCGTAAGTGTGGTGGGTGAGCCCAACGAGGCCAGGGGTGTTTCGGGGCG 1740
 Db 1681 TGATGTCTCCGTAAGTGTGGTGGGTGAGCCCAACGAGGCCAGGGGTGTTTCGGGGCG 1740
 Qy 1741 GGGCATCTGCGCTGGACCTCGCCATCTCTGGATAGTGCCTTCTGCTGCCAGGTGGCCCC 1800
 Db 1741 GGGCATCTGCGCTGGACCTCGCCATCTCTGGATAGTGCCTTCTGCTGCCAGGTGGCCCC 1800
 Qy 1801 ATCCCTGTTTATGGGCTCATTTGTCAGCTCAGCAGTGTGTGCTGCTATATGGTGTG 1860
 Db 1801 ATCCCTGTTTATGGGCTCATTTGTCAGCTCAGCAGTGTGTGCTGCTATATGGTGTG 1860
 Qy 1861 TGCCGAGGCCCTGGGCTGCTGGTGGCCATTTTGTGCTACACAGGTAGTATTTGACAAGAG 1920
 Db 1861 TGCCGAGGCCCTGGGCTGCTGGTGGCCATTTTGTGCTACACAGGTAGTATTTGACAAGAG 1920
 Qy 1921 CGACTTGGCCAAATACTCAGCGTAGAATACTTCCAGCACATTTGGGGTGGAGGGCTGCCT 1980

Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAACTTCCAGACACATTTGGGGTGGAGGGCTGCCT 1980
 Qy 1981 CACTGGGTCCAGAGTCCCGGCTCCTGTGTAGCCCATAGGGGCTGCGGGGCTGGCCCGCAGT 2040
 Db 1981 CACTGGGTCCAGAGTCCCGGCTCCTGTGTAGCCCATAGGGGCTGCGGGGCTGGCCCGCAGT 2040
 Qy 2041 TTTCTGTGCTGCCAAAAGTAATGTGGCTCTGTGTGCTGCAACCTGTGTGCTGCTGAGGTGCGTA 2100
 Db 2041 TTTCTGTGCTGCCAAAAGTAATGTGGCTCTGTGTGCTGCAACCTGTGTGCTGAGGTGCGTA 2100
 Qy 2101 GCTGCACAGCTGGGGGCTGGGGGCTGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 Db 2101 GCTGCACAGCTGGGGGCTGGGGGCTGCGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 Qy 2161 ACTGAGGCGCTTCCAAAGGGGGTTCAGTCTGGAATTTATACAGGGAGGCGCAGAGGGCTCC 2220
 Db 2161 ACTGAGGCGCTTCCAAAGGGGGTTCAGTCTGGAATTTATACAGGGAGGCGCAGAGGGCTCC 2220
 Qy 2221 ATGCACTGGAATTCGGGGGACTCTGCGAGGTGATTTACCCAGGCTCAGGGTTAACAGCTAGC 2280
 Db 2221 ATGCACTGGAATTCGGGGGACTCTGCGAGGTGATTTACCCAGGCTCAGGGTTAACAGCTAGC 2280
 Qy 2281 CTCTAGTTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAAATAAACTCAGTCACCTG 2340
 Db 2281 CTCTAGTTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAAATAAACTCAGTCACCTG 2340
 Qy 2341 GTTTCCCATCTCTAAGGCCCTTAACTGCGAGTTCGTTTAAATGTAGTCTTTGTCATGGGAG 2400
 Db 2341 GTTTCCCATCTCTAAGGCCCTTAACTGCGAGTTCGTTTAAATGTAGTCTTTGTCATGGGAG 2400
 Qy 2401 TTTCTAGATGAACACACTCTCCATGGGATTTGGAACATATGACTTATTTGTAGGGGAAGA 2460
 Db 2401 TTTCTAGATGAACACACTCTCCATGGGATTTGGAACATATGACTTATTTGTAGGGGAAGA 2460
 Qy 2461 GTCTGAGGGGCAACACAGAACAGGTCCTCAGCCACAGCAGCTGCTTTTTCCT 2520
 Db 2461 GTCTGAGGGGCAACACAGAACAGGTCCTCAGCCACAGCAGCTGCTTTTTCCT 2520
 Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTGTGCTTCTCTGTGTCATCA 2580
 Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTGTGCTTCTCTGTGTCATCA 2580
 Qy 2581 CAGACACAGGCAATTTAAATATTTAACTTATTTAAACAAAGTAGAAGGATTCAT 2640
 Db 2581 CAGACACAGGCAATTTAAATATTTAACTTATTTAAACAAAGTAGAAGGATTCAT 2640
 Qy 2641 TGCTAGCTTTTCTGTTGTTGTTCTAAATATTTGGTAGGGTGGGGATCCCCAAACATCA 2700
 Db 2641 TGCTAGCTTTTCTGTTGTTGTTCTAAATATTTGGTAGGGTGGGGATCCCCAAACATCA 2700
 Qy 2701 GGTCCCTGAGATAGCTGGTCAATTTGGGCTGATCAATGCGAGAACTTCTTCTCTCTGGGGT 2760
 Db 2701 GGTCCCTGAGATAGCTGGTCAATTTGGGCTGATCAATGCGAGAACTTCTTCTCTCTGGGGT 2760
 Qy 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAATGATAT 2820
 Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAATGATAT 2820
 Qy 2821 TCCAAATGCTGTACCAAGGTTAGGGTGTGAAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
 Db 2821 TCCAAATGCTGTACCAAGGTTAGGGTGTGAAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
 Qy 2881 CTCAACGGCTTCCCTAACCCACCTCTTCTCTTGGCCAGCCTGGTTCCTCTCTCTCTCC 2940
 Db 2881 CTCAACGGCTTCCCTAACCCACCTCTTCTCTTGGCCAGCCTGGTTCCTCTCTCTCTCC 2940
 Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAGGACTGCCCAAAATTTCCCTTACC 3000
 Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAGGACTGCCCAAAATTTCCCTTACC 3000
 Qy 3001 CCCAACTTCCCTTACCCCAACTTTTCCCAACAGCTCCCAACCTCTGTTTGGAGCTACT 3060
 Db 3001 CCCAACTTCCCTTACCCCAACTTTTCCCAACAGCTCCCAACCTCTGTTTGGAGCTACT 3060

Qy 3061 GCAGACCAAGACCAAAAGTGGCGCTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Db |||||
Qy 3061 GCAGACCAAGACCAAAAGTGGCGCTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Db |||||
Qy 3121 ATATCTGTGCTTGGGGAATCTCACACAGAACTCAGAGGACCCCGCTGCTGAGCTAAGG 3180
Db |||||
Qy 3121 ATATCTGTGCTTGGGGAATCTCACACAGAACTCAGAGGACCCCGCTGCTGAGCTAAGG 3180
Db |||||
Qy 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTGGCGCTTTGCAATAATGCTCTTATTATT 3240
Db |||||
Qy 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTGGCGCTTTGCAATAATGCTCTTATTATT 3240
Db |||||
Qy 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db |||||
Qy 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db |||||
Qy 3301 AAATTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db |||||
Qy 3301 AAATTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db |||||
Qy 3361 AA 3410
Db |||||
Qy 3361 AA 3410
Db |||||

RESULT 13

US-09-759-143-110
; Sequence 110, Application US/09759143
; Patent No. 6800746
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-110

Query Match 100.0%; Score 3409.6; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAACCAAGCTGACCGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db |||||
Qy 1 GGAACCAAGCTGACCGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db |||||
Qy 61 GTGATGAGACGTGTCCTCCCACTGAGGTGCCCAAGCAGCAGGTTGTGAGCATGGGCTGAG 120
Db |||||
Qy 61 GTGATGAGACGTGTCCTCCCACTGAGGTGCCCAAGCAGCAGGTTGTGAGCATGGGCTGAG 120
Db |||||

Qy 121 AAGCTGACCGGACCAAAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAAGT 180
Db |||||
Qy 121 AAGCTGACCGGACCAAAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAAGT 180
Db |||||
Qy 181 GGGGCGACGAAGAGGAGGAGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAAGTTCGT 240
Db |||||
Qy 181 GGGGCGACGAAGAGGAGGAGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAAGTTCGT 240
Db |||||
Qy 241 GAGTGCCTGAACCGGCCCTTGAGCCTTACCCTGCTGGCGCTGACATATGCTCAGAGGCTGTG 300
Db |||||
Qy 241 GAGTGCCTGAACCGGCCCTTGAGCCTTACCCTGCTGGCGCTGACATATGCTCAGAGGCTGTG 300
Db |||||
Qy 301 GGTGAGCGGCTCTGCGGCAACCGGAAAGCCAGCTTCTGCTGCTCAACCTGCTAACTT 360
Db |||||
Qy 301 GGTGAGCGGCTCTGCGGCAACCGGAAAGCCAGCTTCTGCTGCTCAACCTGCTAACTT 360
Db |||||
Qy 361 TGGCTTGGAGGCTGTGTTGGCCGAGGACATACATATGCTGGCGCTTCTGCTGCTGGAAGT 420
Db |||||
Qy 361 TGGCTTGGAGGCTGTGTTGGCCGAGGACATACATATGCTGGCGCTTCTGCTGCTGGAAGT 420
Db |||||
Qy 421 GGGGCTAGAGGAGAGTTCATGACCATGCTGGGCAATGGTCCAGTGTGGGCTGGT 480
Db |||||
Qy 421 GGGGCTAGAGGAGAGTTCATGACCATGCTGGGCAATGGTCCAGTGTGGGCTGGT 480
Db |||||
Qy 481 CTGTGTCGCGCTCTAGGCTCAGCCAGTGACCACTGCGGTGAGCGCTATGCGCGCCGCG 540
Db |||||
Qy 481 CTGTGTCGCGCTCTAGGCTCAGCCAGTGACCACTGCGGTGAGCGCTATGCGCGCCGCG 540
Db |||||
Qy 541 GCCCTTCACTTGGGCACTGCTTGGGCACTGCTGCTGAGGCTCTTCTCATCCCAAGGC 600
Db |||||
Qy 541 GCCCTTCACTTGGGCACTGCTTGGGCACTGCTGCTGAGGCTCTTCTCATCCCAAGGC 600
Db |||||
Qy 601 CGGCTGCTAGCAGGCTGCTGCGCGGATCCAGGCCCTCGAGCTGCGACTGCTCAT 660
Db |||||
Qy 601 CGGCTGCTAGCAGGCTGCTGCGCGGATCCAGGCCCTCGAGCTGCGACTGCTCAT 660
Db |||||
Qy 661 CTTGGGCGTGGGCTGCTGGACTTCTGTGGCAGAGTGTGCTTCACTCAGCTGAGGCGCT 720
Db |||||
Qy 661 CTTGGGCGTGGGCTGCTGGACTTCTGTGGCAGAGTGTGCTTCACTCAGCTGAGGCGCT 720
Db |||||
Qy 721 GCTCTGTGACCTTTCGGGACCCGAGCACTGCTGCGCAGGCTACTCTGTATGCTT 780
Db |||||
Qy 721 GCTCTGTGACCTTTCGGGACCCGAGCACTGCTGCGCAGGCTACTCTGTATGCTT 780
Db |||||
Qy 781 CATGATCAGCTTGGGCGCTGCTGGGCTTACCTCTGCGCTGCCATTTGACTGGGACACAG 840
Db |||||
Qy 781 CATGATCAGCTTGGGCGCTGCTGGGCTTACCTCTGCGCTGCCATTTGACTGGGACACAG 840
Db |||||
Qy 841 TGGCTTGGGCTTTCGGAACTTGGGCGCCCTGCTTTCGGGCTGCACAGCTGCTGCCG 1080
Db |||||
Qy 841 TGGCTTGGGCTTTCGGAACTTGGGCGCCCTGCTTTCGGGCTGCACAGCTGCTGCCG 1080
Db |||||
Qy 901 CTTTCTCACTGCTGAGCAGCACTGCTGCTGGCTGAGGAGGAGTGGCTTCTTGGCTGCT 960
Db |||||
Qy 901 CTTTCTCACTGCTGAGCAGCACTGCTGCTGGCTGAGGAGGAGTGGCTTCTTGGCTGCT 960
Db |||||
Qy 961 CGAGCCAGCAGAGGCTGCTGGGCGCCCTCTTGTGGCGCCCACTGCTGCTCATGCGGGC 1020
Db |||||
Qy 961 CGAGCCAGCAGAGGCTGCTGGGCGCCCTCTTGTGGCGCCCACTGCTGCTCATGCGGGC 1020
Db |||||
Qy 1021 CCGCTTGGGCTTTCGGAACTTGGGCGCCCTGCTTTCGGGCTGCACAGCTGCTGCCG 1080
Db |||||
Qy 1021 CCGCTTGGGCTTTCGGAACTTGGGCGCCCTGCTTTCGGGCTGCACAGCTGCTGCCG 1080
Db |||||
Qy 1081 CATGCCCGCACCTTGGCGGCTTCTGCTGGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 1140
Db |||||
Qy 1081 CATGCCCGCACCTTGGCGGCTTCTGCTGGCTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 1140
Db |||||
Qy 1141 GACCTTCAAGCTGTTTTTACCGGATTTCTGGGCGAGGGGCTGTACAGGGCTGCCCCAG 1200
Db |||||
Qy 1141 GACCTTCAAGCTGTTTTTACCGGATTTCTGGGCGAGGGGCTGTACAGGGCTGCCCCAG 1200
Db |||||
Qy 1201 AGCTGAGCGGGCACCGAGGCCCGGAGACACTATATGATGAAGGCTTTCGATGGGCGCT 1260
Db |||||

RESULT 14

US-09-651-236-110
; Sequence 110, Application US/09651236

; Patent No. 6818751

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Devin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqui

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.42718C18

; CURRENT APPLICATION NUMBER: US/09/651,236

; CURRENT FILING DATE: 2000-08-29

; NUMBER OF SEQ ID NOS: 865

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 110

; LENGTH: 3410

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-651-236-110

Query Match 100.0%; Score 3409.6; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGGAACAGCGCTGCACCGCTGGCTCCGGGTGACAGCCGCGCTCGGCAGAGATCTGA	60
Db	1	GGGAACAGCGCTGCACCGCTGGCTCCGGGTGACAGCCGCGCTCGGCAGAGATCTGA	60
Qy	61	GTGATGAGAGCTGTCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG	120
Db	61	GTGATGAGAGCTGTCCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG	120
Qy	121	AAGCTGACCGGCACCAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT	180
Db	121	AAGCTGACCGGCACCAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT	180
Qy	181	GGCGGACAGAGGAGGAGCCGACGCTTCTGGAGCAGAGCCGAGCAGGAGTCTG	240
Db	181	GGCGGACAGAGGAGGAGCCGACGCTTCTGGAGCAGAGCCGAGCAGGAGTCTG	240
Qy	241	GAGTGCTTGAACGGCCCCCTGAGCCCTACCGCCCTGCCCCACTATGCTCAGAGGCTGTG	300
Db	241	GAGTGCTTGAACGGCCCCCTGAGCCCTACCGCCCTGCCCCACTATGCTCAGAGGCTGTG	300
Qy	301	GGTGAGCGGCTGCTGGGCACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAACCTT	360
Db	301	GGTGAGCGGCTGCTGGGCACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAACCTT	360
Qy	361	TGGCCTGGAGGTGTTTGGCCGAGGCATCACCTATGTGCGCCTCTGCTGCTGGAAGT	420
Db	361	TGGCCTGGAGGTGTTTGGCCGAGGCATCACCTATGTGCGCCTCTGCTGCTGGAAGT	420
Qy	421	GGGGGTAGAGAGAAGTTTCATGACCATTGGTCTGGGCATTTGGTCACTGCTGGCCCTGGT	480
Db	421	GGGGGTAGAGAGAAGTTTCATGACCATTGGTCTGGGCATTTGGTCACTGCTGGCCCTGGT	480

Qy	481	CTGTGTCCCGCTCCTAGGCTCAGCCAGTGACCACTGGCTGGAGCGTATGGCCGCCCGC	540
Db	481	CTGTGTCCCGCTCCTAGGCTCAGCCAGTGACCACTGGCTGGAGCGTATGGCCGCCCGC	540
Qy	541	GCCTTCATCTGGGCATGTCTTGGGCATCTGCTGGAGCCTTTCTCATCCCAAGGC	600
Db	541	GCCTTCATCTGGGCATGTCTTGGGCATCTGCTGGAGCCTTTCTCATCCCAAGGC	600
Qy	601	CGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCAGGCCCTCGAGCTGGCAGCTGCTCAT	660
Db	601	CGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCAGGCCCTCGAGCTGGCAGCTGCTCAT	660
Qy	661	CTTGGGCGTGGGCTGCTGTGGACTTCTGTGGCAGGTGCTTCACTCAGCTGGAGGCCCT	720
Db	661	CTTGGGCGTGGGCTGCTGTGGACTTCTGTGGCAGGTGCTTCACTCAGCTGGAGGCCCT	720
Qy	721	GCTCTGTGACCTTCTCGGGACCCGGACCACTGTGCCAGGCCCTACTCTCTATGCTT	780
Db	721	GCTCTGTGACCTTCTCGGGACCCGGACCACTGTGCCAGGCCCTACTCTCTATGCTT	780
Qy	781	CATGATCAGTCTTGGGGCTGCTGGCTACCTCTGCTGCTGCCATTTGACTGGGACACAG	840
Db	781	CATGATCAGTCTTGGGGCTGCTGGCTACCTCTGCTGCTGCCATTTGACTGGGACACAG	840
Qy	841	TGCCCTGGCCCCCTACTGGGCACCCAGAGGAGTGCCTTTTGGCTGCTCAACCTCAT	900
Db	841	TGCCCTGGCCCCCTACTGGGCACCCAGAGGAGTGCCTTTTGGCTGCTCAACCTCAT	900
Qy	901	CTTCTCAGCTGTGAGCCACACTGTGGTGGCTGAGGAGCAGCGCTGGGCCCCAC	960
Db	901	CTTCTCAGCTGTGAGCCACACTGTGGTGGCTGAGGAGCAGCGCTGGGCCCCAC	960
Qy	961	CGAGCCAGCAGAGGGCTGCGGCCCTCTCTTGTGCCCCACTGTGCTCATGCCCCGGC	1020
Db	961	CGAGCCAGCAGAGGGCTGCGGCCCTCTCTTGTGCCCCACTGTGCTCATGCCCCGGC	1020
Qy	1021	CCGCTTGGCTTCCGGAACTGGGCGCCCTGCTTCCCCTGCTGCACAGCTGTGCTCCG	1080
Db	1021	CCGCTTGGCTTCCGGAACTGGGCGCCCTGCTTCCCCTGCTGCACAGCTGTGCTCCG	1080
Qy	1081	CATGCCCGGACCTCGGCGGCTCTTGTGGCTGAGCTGTGAGCTGGATGGCAGCTCAT	1140
Db	1081	CATGCCCGGACCTCGGCGGCTCTTGTGGCTGAGCTGTGAGCTGGATGGCAGCTCAT	1140
Qy	1141	GACCTTCAGCTGCTTTTACACGGATTTCTGGGCGAGGGCTGTACAGGCGGTGCCAG	1200
Db	1141	GACCTTCAGCTGCTTTTACACGGATTTCTGGGCGAGGGCTGTACAGGCGGTGCCAG	1200
Qy	1201	AGCTGAGCGGGCACCGAGCCCGGAGACACTATGATGAAGGGTTCCGATGGGAGCCT	1260
Db	1201	AGCTGAGCGGGCACCGAGCCCGGAGACACTATGATGAAGGGTTCCGATGGGAGCCT	1260
Qy	1261	GGGGCTGTTCTGAGTGCGGCATCTCCTGCTGCTTCTCTGCTCATGAGCGGCTGGT	1320
Db	1261	GGGGCTGTTCTGAGTGCGGCATCTCCTGCTGCTTCTCTGCTCATGAGCGGCTGGT	1320
Qy	1321	GCAGCGATTCGGCAGCTCGAGCAGCTATTGTCAGTGCGGAGCTTTCTCTGTCGCTGC	1380
Db	1321	GCAGCGATTCGGCAGCTCGAGCAGCTATTGTCAGTGCGGAGCTTTCTCTGTCGCTGC	1380
Qy	1381	CGGTGCCACATGCTGCTGCCACAGTGTGGCCGTGGTGACAGCTTCAGCGCCCTCACCG	1440
Db	1381	CGGTGCCACATGCTGCTGCCACAGTGTGGCCGTGGTGACAGCTTCAGCGCCCTCACCG	1440
Qy	1441	GTTTCACTTCTAGCCCTGAGATCTGCCCTACACACTGGCCCTCCCTCTACACCGGGA	1500
Db	1441	GTTTCACTTCTAGCCCTGAGATCTGCCCTACACACTGGCCCTCCCTCTACACCGGGA	1500
Qy	1501	GAGCAGGTGTTCTTCCGCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAG	1560
Db	1501	GAGCAGGTGTTCTTCCGCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAG	1560
Qy	1561	CCTGATGACCAAGCTTCTGTCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACGT	1620

! TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
! FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

! BEST REFERENCE: 210121.42717C17

! CURRENT APPLICATION NUMBER: US/09/636.215

! CURRENT FILING DATE: 2000-08-10

! NUMBER OF SEQ ID NOS: 852

! SOFTWARE: FastSeq for Windows Version 3.0

! SEQ ID NO 704

! LENGTH: 4034

! TYPE: DNA

! ORGANISM: Homo sapiens

! US-09-636-215-704

Query Match 75.8%; Score 2585.4; DB 4; Length 4034;
Best Local Similarity 82.4%; Pred. No. 0;
Matches 3325; Conservative 0; Mismatches 1; Indels 709; Gaps 3;

Qy	4	AACGAGCTGACCGCTGCTCCGGGTGACAGCGCGCGCTCGCCAGGATCTGAGTG	63
Db	1	AACGAGCTGACCGCTGCTCCGGGTGACAGCGCGCGCTCGCCAGGATCTGAGTG	60
Qy	64	ATGAGAGCTGCCCACTGAGTGGCCACAGCAGCAGGTGTTGAGCATGGCTGAGAG	123
Db	61	ATGAGAGCTGCCCACTGAGTGGCCACAGCAGCAGGTGTTGAGCATGGCTGAGAG	120
Qy	124	CTGACCGGACCAAAAGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGGCAAGTTGGC	183
Db	121	CTGACCGGACCAAAAGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGGCAAGTTGGC	180
Qy	184	GGCAGCAGGAGGAGGCGCAGCTTTCTGAGCAGAGCGAGCAAGCAAGTTCTGGAG	243
Db	181	GGCAGCAGGAGGAGGCGCAGCTTTCTGAGCAGAGCGAGCAAGCAAGTTCTGGAG	240
Qy	244	TGCTGAACGGCCCTGAGCCCTACCGGCTGGCCCACTATGTTCCAGAGGCTGTGGGT	303
Db	241	TGCTGAACGGCCCTGAGCCCTACCGGCTGGCCCACTATGTTCCAGAGGCTGTGGGT	300
Qy	304	GAGCGGCTGCTGGGACCGGAAAGCCAGCTCTTGTGTTCAACCTGCTAACTTTGG	363
Db	301	GAGCGGCTGCTGGGACCGGAAAGCCAGCTCTTGTGTTCAACCTGCTAACTTTGG	360
Qy	364	CCTGAGGTGTTTGGCGCAGGCATCACCTATGTGCCGCTCTGCTGCTGGAAGTGG	423
Db	361	CCTGAGGTGTTTGGCGCAGGCATCACCTATGTGCCGCTCTGCTGCTGGAAGTGG	420
Qy	424	GGTAGAGAGAGTTTCAACCATGTTGCTGGGCAATGGTCCAGTGTGGCCCTGGTCTG	483
Db	421	GGTAGAGAGAGTTTCAACCATGTTGCTGGGCAATGGTCCAGTGTGGCCCTGGTCTG	480
Qy	484	TGTCGGCTCTAGGCTCAGCCAGTGACCACTGGCGTGGAGCTATGGCGCCCGGCC	543
Db	481	TGTCGGCTCTAGGCTCAGCCAGTGACCACTGGCGTGGAGCTATGGCGCCCGGCC	540
Qy	544	CTTCATCTGGGCACTGTCTTTGGGCACTCTGCTGAGCCTCTTTCTCATCCCAAGGCGG	603
Db	541	CTTCATCTGGGCACTGTCTTTGGGCACTCTGCTGAGCCTCTTTCTCATCCCAAGGCGG	600
Qy	604	CTGGCTAGCAGGCTGTGTCGCCGATCCAGGCCCTTGAGCTGGCACTGCTCATCCT	663
Db	601	CTGGCTAGCAGGCTGTGTCGCCGATCCAGGCCCTTGAGCTGGCACTGCTCATCCT	660
Qy	664	GGGCGTGGGCTGTGAGCTTCTGTGGCCAGGTGTTCACTCCACTGGAGGCCCTGCT	723
Db	661	GGGCGTGGGCTGTGAGCTTCTGTGGCCAGGTGTTCACTCCACTGGAGGCCCTGCT	720
Qy	724	CTCTGACCTCTTCGGGACCGGACCACTGTGGCAGGCTTACTCTGTCTATGCTTCAT	783
Db	721	CTCTGACCTCTTCGGGACCGGACCACTGTGGCAGGCTTACTCTGTCTATGCTTCAT	780
Qy	784	GATCAGCTTGGGGCTGCTGGGCTACCTCTCTGCTGCCATTGACTGGGACACAGTGC	843
Db	781	GATCAGCTTGGGGCTGCTGGGCTACCTCTCTGCTGCCATTGACTGGGACACAGTGC	840

Qy	844	CCTGGCCCCCTACTCTGGGCAACCCAGGAGGAGTGCTCTTTGGCTGTCTCAACCTCATCTT	903
Db	841	CCTGGCCCCCTACTCTGGGCAACCCAGGAGGAGTGCTCTTTGGCTGTCTCAACCTCATCTT	900
Qy	904	CCTCAGCTGTAGCAGCCACACTGTGTGGTGTGAGGAGGAGGCTGGGCCCCCAGCA	963
Db	901	CCTCAGCTGTAGCAGCCACACTGTGTGGTGTGAGGAGGAGGCTGGGCCCCCAGCA	960
Qy	964	GCAGCAGAAAGGCTGTGGCCCCCTCTTGTGTGCCCACTGTGTCTCATGCGGGGCCG	1023
Db	961	GCAGCAGAAAGGCTGTGGCCCCCTCTTGTGTGCCCACTGTGTCTCATGCGGGGCCG	1020
Qy	1024	CTTGGCTTTCCGAAACCTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGTGCCGAT	1083
Db	1021	CTTGGCTTTCCGAAACCTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGTGCCGAT	1080
Qy	1084	GGCGGCACTTGGCGGCTCTTGTGGTGTGAGCTGTGAGCTGTGAGTGTGAGTGTGAG	1143
Db	1081	GGCGGCACTTGGCGGCTCTTGTGGTGTGAGCTGTGAGCTGTGAGTGTGAGTGTGAG	1140
Qy	1144	CTTCAGCTCTTTTACACGGATTTTGTGGCGAGGGCTGTACAGGCGGTGCCAGAGC	1203
Db	1141	CTTCAGCTCTTTTACACGGATTTTGTGGCGAGGGCTGTACAGGCGGTGCCAGAGC	1200
Qy	1204	TGAGCCGGGCAACGAGGCGCGGAGACATATGATGA	1239
Db	1201	TGAGCCGGGCAACGAGGCGCGGAGACATATGATGAAGGTAAGGCCCTTGGCAGCCAGCAG	1260
Qy	1240	-----	1239
Db	1261	AGGCTGTGTGGAGCGCCCAACAGAGACGACACTCGGGGCTGTGTCTGGGCTGGTGC	1320
Qy	1240	-----	1239
Db	1321	TCCTCATCTGGCCCCGACTTCTCTGTCTCAGAAAGTGGGATGGAACCCCATCTGCATACA	1380
Qy	1240	-----	1239
Db	1381	CGGCTTCTCATGGTGTGGAACATCTCTGCTTGGGTTTCAGGAAGGCCCTCTGCTGCTC	1440
Qy	1240	-----	1239
Db	1441	TAGGAGTCTGATCAGAGTCTGTGCCAGTTTGCAGAGGAAAGGGGAGCTTATTCAA	1500
Qy	1240	-----	1239
Db	1501	AGTCTAGAGGAGTGGAGGAGTTAAGGCTGGATTTAGATCTGCTGCTGCTGCTGCTGCTG	1560
Qy	1240	-----	1239
Db	1561	TGTGCCCTCTGCTCCCCCAACGACTTTTCCAAATAATCTCACCAGGCGCTTCCAGCTCAGG	1620
Qy	1240	-----	1239
Db	1621	CGTCTAGAGAGCTGTGAAGCCTATGGCCAGCTGTCTTTGTGTTCCTCTCACCCTGCT	1680
Qy	1240	-----	1239
Db	1681	GTCTCAGCTGAGACTCCAGGAAACCTTACAGCTACCTTCTGCTGCTTCCAGCAAGG	1740
Qy	1240	-----	1239
Db	1741	GGCGTTGCCCACTTCTCTGAGGGTCACTGGAAGAACTTAGACTCCCATTTGCTAGAGGTA	1800
Qy	1240	-----	1239
Db	1801	GAAAGGGAAGGTGTGTGGGAGCAGGCTGGTCCACAGCAGGCTCTGCTGAGCAGGTAC	1860
Qy	1240	-----	1239
Db	1861	CTGTGGTTCGCCCTTCTCATCTCCTGAGAGTGTGCTGAGACCTTCCCTCCAGGCTCTGT	1920
Qy	1240	-----AGGCGTTCCGATGGGAGGCTGGGCTGTTCCTGCACT	1277

```

Db      1921  CTGATGGCCCTCTCCCTCTGAGCGTTGCGATGGGAGCGTGGGGCTTCTCTGCAAT 1980
Qy      1278  GGGCCATCTCCCTGGTCTTCTCTGCTGATGAGACCGGCTGGTGGAGGATTCGCGACTC 1337
Db      1981  GGGCCATCTCCCTGGTCTTCTCTGCTGATGAGACCGGCTGGTGGAGGATTCGCGACTC 2040
Qy      1338  GAGCAGTCTATTTGGCCAGTGGAGCTTCCCTGTGGCTGCCGGTGCCACATGCTGT 1397
Db      2041  GAGCAGTCTATTTGGCCAGTGGAGCTTCCCTGTGGCTGCCGGTGCCACATGCTGT 2100
Qy      1398  CCCACAGTGTGGCCGTGGTGGAGCTTCCAGCCGCCCTCACCGGGTTCACCTTCTCAGCC 1457
Db      2101  CCCACAGTGTGGCCGTGGTGGAGCTTCCAGCCGCCCTCACCGGGTTCACCTTCTCAGCC 2160
Qy      1458  TGCAGATCTGCGCTTACACACTGGGCTCCCTCTACACCGGAGAGAGAGTTCCTGC 1517
Db      2161  TGCAGATCTGCGCTTACACACTGGGCTCCCTCTACACCGGAGAGAGAGTTCCTGC 2220
Qy      1518  CCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGACAGCCTGATGACCACTTCC 1577
Db      2221  CCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGACAGCCTGATGACCACTTCC 2280
Qy      1578  TGCAGGCGCTTAAAGCTTGAGCTCCCTTCCCTAATGGAACAGTGGGTCTGGAGGAGTG 1637
Db      2281  TGCAGGCGCTTAAAGCTTGAGCTCCCTTCCCTAATGGAACAGTGGGTCTGGAGGAGTG 2340
Qy      1638  GCTGCTCCCACTCCACCGGCTCTGCGGGCTCTGCGGCTCTGCTGATGCTCCGTAAGTG 1697
Db      2341  GCTGCTCCCACTCCACCGGCTCTGCGGGCTCTGCGGCTCTGCTGATGCTCCGTAAGTG 2400
Qy      1698  TGGTGGTGGGTGAGCCACCGAGGCGAGGGTGGTTCGGGGCGGGGCACTGCGCTTGAGC 1757
Db      2401  TGGTGGTGGGTGAGCCACCGAGGCGAGGGTGGTTCGGGGCGGGGCACTGCGCTTGAGC 2460
Qy      1758  TCGCCATCTGATAGTGGCTTCTGCTGCTGCGAGGTGGCCCATCCCTGTTATGGCT 1817
Db      2461  TCGCCATCTGATAGTGGCTTCTGCTGCTGCGAGGTGGCCCATCCCTGTTATGGCT 2520
Qy      1818  CATTGTCCAGTCCAGCAGTCTGCTGCTGCTATATGCTGCTGCGCAGGCGCTGGGTC 1877
Db      2521  CATTGTCCAGTCCAGCAGTCTGCTGCTGCTATATGCTGCTGCGCAGGCGCTGGGTC 2580
Qy      1878  TGGTCCCATTTACTTGTCTACAGGTAGTATTTGACAGAGGAGCTTGGCCAAATACT 1937
Db      2581  TGGTCCCATTTACTTGTCTACAGGTAGTATTTGACAGAGGAGCTTGGCCAAATACT 2640
Qy      1938  CAGCGTAGAAAACCTTCCAGCAGTGGGGTGGAGGCGCTGCTCACTGGGTCCAGCTCC 1997
Db      2641  CAGCGTAGAAAACCTTCCAGCAGTGGGGTGGAGGCGCTGCTCACTGGGTCCAGCTCC 2700
Qy      1998  CCGCTCTGTTAGCCCATGGGCTGCGGGCTGCGCGGCTGCGCGGCTGCTGCTGCTGCAAG 2057
Db      2701  CCGCTCTGTTAGCCCATGGGCTGCGGGCTGCGCGGCTGCGCGGCTGCTGCTGCTGCAAG 2760
Qy      2058  TAAATGGCTCTCTGCTGCGCCCTGCTGCTGCTGAGGTGCGGTAGCTGACAGCTGGGGC 2117
Db      2761  TAAATGGCTCTCTGCTGCGCCCTGCTGCTGCTGAGGTGCGGTAGCTGACAGCTGGGGC 2820
Qy      2118  TGGGGCTGCTCTCTCTCTCCCAAGTCTCTAGGGCTGCGCTGAGTGGAGGCTTCCAG 2177
Db      2821  TGGGGCTGCTCTCTCTCTCCCAAGTCTCTAGGGCTGCGCTGAGTGGAGGCTTCCAG 2880
Qy      2178  GGGGTTTCAGTCTGAGCTTATACAGGAGGAGGAGGCTCCATGCTGCTGGAATGGGG 2237
Db      2881  GGGGTTTCAGTCTGAGCTTATACAGGAGGAGGAGGCTCCATGCTGCTGGAATGGGG 2940
Qy      2238  GACTCTGAGGTGGATTAACAGGCTCAGGGTTAAACAGTACGCTCTCTAGTGGAGACA 2297
Db      2941  GACTCTGAGGTGGATTAACAGGCTCAGGGTTAAACAGTACGCTCTCTAGTGGAGACA 3000
Qy      2298  CCTAGAGAGGGTTTTGGAGGCTGAATAAATCAGTCACTGGTTCCTATCTTAAGC 2357

```

```

Db      3001  CCTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACTGGTTTTCCCATCTCTAAGC 3060
Qy      2358  CCTTAACTCCAGCTTCGTTTTAATGTAGCTCTTGCATGGGAGTTTTCTAGATGAAACAC 2417
Db      3061  CCTTAACTCCAGCTTCGTTTTAATGTAGCTCTTGCATGGGAGTTTTCTAGATGAAACAC 3120
Qy      2418  TCCTCCATGGATTTGAACATATG - ACTTATTTGTAGGGAGAGTCTCTAGAGGGGCAAC 2475
Db      3121  TCCTCCATGGATTTGAACATATGAAATTTATTTAGGGAGAGTCTCTAGAGGGGCAAC 3180
Qy      2476  ACACAGAACAGGTCCTCCAGCCACAGCACTGTCTTTTGTGTGATCCACCCCTCT 2535
Db      3181  ACACAGAACAGGTCCTCCAGCCACAGCACTGTCTTTTGTGTGATCCACCCCTCT 3240
Qy      2536  TACCTTTTATCAGGATGTGGCTGTGTGGTCTTCTTGTGGCATCACAGACACAGGCAT 2595
Db      3241  TACCTTTTATCAGGATGT - GCCTGTGTGGTCTTCTTGTGGCATCACAGACACAGGCAT 3299
Qy      2596  TTAATAATTTAACTTATTTTAAACAAGTAGAGGAAATCCATTTGTAGCTTTCTGT 2655
Db      3300  TTAATAATTTAACTTATTTTAAACAAGTAGAGGAAATCCATTTGTAGCTTTCTGT 3359
Qy      2656  GTTGGTCTTAATAATTTGGGTAGGTGGGATCCCAACAATCAGTCCCTGAGATAG 2715
Db      3360  GTTGGTCTTAATAATTTGGGTAGGTGGGATCCCAACAATCAGTCCCTGAGATAG 3419
Qy      2716  CTGCTCATTTGGCTGATCATTCAGCAATCTTCTCTGGGGTCTGGCCCCCAAAAT 2775
Db      3420  CTGCTCATTTGGCTGATCATTCAGCAATCTTCTCTGGGGTCTGGCCCCCAAAAT 3479
Qy      2776  GCCTAAACCCAGGACCTTGGAAATTTCTACTCATCCAAATGATAATTCAAATGTGTAC 2835
Db      3480  GCCTAAACCCAGGACCTTGGAAATTTCTACTCATCCAAATGATAATTCAAATGTGTAC 3539
Qy      2836  CCAAGTTTAGGCTTTGAAAGAGGTAGAGGTGGGGTTCAGGTCTCAAGGGCTTCCT 2895
Db      3540  CCAAGTTTAGGCTTTGAAAGAGGTAGAGGTGGGGTTCAGGTCTCAAGGGCTTCCT 3599
Qy      2896  AACCAACCCCTCTTCTCTTGGCCAGCCTGTGTCCCCCACTTCCACTCCCTCTACTCTC 2955
Db      3600  AACCAACCCCTCTTCTCTTGGCCAGCCTGTGTCCCCCACTTCCACTCCCTCTACTCTC 3659
Qy      2956  TCTAGGACTGGGCTGATGAGGCACTGCCAAAATTTCCCTACCCCACTTTCCCTCA 3015
Db      3660  TCTAGGACTGGGCTGATGAGGCACTGCCAAAATTTCCCTACCCCACTTTCCCTCA 3719
Qy      3016  CCCCCAACTTTCCCAACAGCTCCCAACCTGTGTGGAGCTACTGCAAGGACCAAGCA 3075
Db      3720  CCCCCAACTTTCCCAACAGCTCCCAACCTGTGTGGAGCTACTGCAAGGACCAAGCA 3779
Qy      3076  CAAAGTGGGTTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGTATATCTGTCTGGG 3135
Db      3780  CAAAGTGGGTTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGTATATCTGTCTGGG 3839
Qy      3136  GAATCTCACAGAAAACCTCAGGAGCACCCCTGCTGAGCTAAGGAGGTCTTATCTCTC 3195
Db      3840  GAATCTCACAGAAAACCTCAGGAGCACCCCTGCTGAGCTAAGGAGGTCTTATCTCTC 3899
Qy      3196  AGGGGGGTTTTAAGTGGGTTTTGCAATAATGCTGCTTATTTATTTAGCGGGGTGAATAT 3255
Db      3900  AGGGGGGTTTTAAGTGGGTTTTGCAATAATGCTGCTTATTTATTTAGCGGGGTGAATAT 3959
Qy      3256  TTTATCTGTAAGTGAGCAATCAGAGTATATTTTATGTTGAGCAAAAATTAAGGCTTTC 3315
Db      3960  TTTATCTGTAAGTGAGCAATCAGAGTATATTTTATGTTGAGCAAAAATTAAGGCTTTC 3315
Qy      3316  TTATATGTTTAAAAA 3330
Db      4020  TTATATGTTTAAAAA 4034

```

This Page Blank (uspto)

[illegible]

1141	Db	GA	CTTCA	CGCTGTTT	TACACGGATTTCTGTGGCGAGGGGCTGTATCACAGGGCGTGGCCAG	1200
1201	Qy	AG	CTGAGC	CGGGCACCGAGGCCCGGAGACATATGATGAAGGCGTTTCGGATGGCGACGCT	1260	
1201	Db	AG	CTGAGC	CGGGCACCGAGGCCCGGAGACATATGATGAAGGCGTTTCGGATGGCGACGCT	1260	
1261	Qy	GG	GGCTGTTCT	CGAGTGGCCATCTCCCTGTGFTTCTCTCTGTGTCATGGACCGGCTGGT	1320	
1261	Db	GG	GGCTGTTCT	CGAGTGGCCATCTCCCTGTGFTTCTCTCTGTGTCATGGACCGGCTGGT	1320	
1321	Qy	GC	AGCATTCGGC	ACTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGC	1380	
1321	Db	GC	AGCATTCGGC	ACTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGC	1380	
1381	Qy	CG	GTGCACATGCTGT	CCACAGTGTGGCCGTGTGACAGCTTCAGCCGCTCACCCG	1440	
1381	Db	CG	GTGCACATGCTGT	CCACAGTGTGGCCGTGTGACAGCTTCAGCCGCTCACCCG	1440	
1441	Qy	GT	TCACTTCTC	AGCCCTGCAGATCTCTGCCCTACACATTTGGCTCCCTTACACCGGA	1500	
1441	Db	GT	TCACTTCTC	AGCCCTGCAGATCTCTGCCCTACACATTTGGCTCCCTTACACCGGA	1500	
1501	Qy	GA	AGCAGGTGTTCT	TGCCMAATACCGAGGGGACACTGAGAGTGCTAGCAGTGAGACAG	1560	
1501	Db	GA	AGCAGGTGTTCT	TGCCMAATACCGAGGGGACACTGAGAGTGCTAGCAGTGAGACAG	1560	
1561	Qy	CT	GATGAC	CAGCTTCTGCGAGGCCCTAAGCCTGTGAGCTCCCTTCCCTAATGGACACGT	1620	
1561	Db	CT	GATGAC	CAGCTTCTGCGAGGCCCTAAGCCTGTGAGCTCCCTTCCCTAATGGACACGT	1620	
1621	Qy	GG	TGCTG	GAGCAGTGGCTCTCCACCTCCACCCGGGCTCTGCGGGGCTCTGCCTG	1680	
1621	Db	GG	TGCTG	GAGCAGTGGCTCTCCACCTCCACCCGGGCTCTGCGGGGCTCTGCCTG	1680	
1681	Qy	TG	ATGCTCTCG	TACGTGTGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCCG	1740	
1681	Db	TG	ATGCTCTCG	TACGTGTGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCCG	1740	
1741	Qy	GG	CATCTG	CTGGA	CTCGCCACTCTGTGATAGTCCCTTCTGCTGCCAGGTGGCC	1800
1741	Db	GG	CATCTG	CTGGA	CTCGCCACTCTGTGATAGTCCCTTCTGCTGCCAGGTGGCC	1800
1801	Qy	AT	CCCTGTTTAT	GGGCTCCAATGTCAGCTCAGCCAGTCTGTCACTGCCTATATGGTGT	1860	
1801	Db	AT	CCCTGTTTAT	GGGCTCCAATGTCAGCTCAGCCAGTCTGTCACTGCCTATATGGTGT	1860	
1861	Qy	TG	CGCAGGCTGG	GTCTGTGTCATTTTGTCTACAGGTAGTATTTGACAAGAG	1920	
1861	Db	TG	CGCAGGCTGG	GTCTGTGTCATTTTGTCTACAGGTAGTATTTGACAAGAG	1920	
1921	Qy	CG	ACTTTGGCCAA	TACTCAGCGTAGAANAATTCAGCACATTTGGGGTGGAGGCTTCCT	1980	
1921	Db	CG	ACTTTGGCCAA	TACTCAGCGTAGAANAATTCAGCACATTTGGGGTGGAGGCTTCCT	1980	
1981	Qy	CA	CTGGGTCC	AGCTCCCGCTCTGTAGCCCATGGGGCTGCCGGGCTGGCGCCAGT	2040	
1981	Db	CA	CTGGGTCC	AGCTCCCGCTCTGTAGCCCATGGGGCTGCCGGGCTGGCGCCAGT	2040	
2041	Qy	TT	CTGTTGTG	CAAAAGTAAATGTGGTCTCTGTGTGCCACCTGTGTCTGTAGAGTGGCTA	2100	
2041	Db	TT	CTGTTGTG	CAAAAGTAAATGTGGTCTCTGTGTGCCACCTGTGTCTGTAGAGTGGCTA	2100	
2101	Qy	GC	TGCACAGTGG	GGGCTGGGCTCTCTCTCTCCCGAGTCTCTAGGGCTGCCTG	2160	
2101	Db	GC	TGCACAGTGG	GGGCTGGGCTCTCTCTCTCCCGAGTCTCTAGGGCTGCCTG	2160	
2161	Qy	AC	TGGAGGCTT	CCAAAGGGGTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGCTCC	2220	
2161	Db	AC	TGGAGGCTT	CCAAAGGGGTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGCTCC	2220	
2221	Qy	AT	GCACTGGA	ATCGGGGACTCTGCAAGTGGATTAACCCAGGCTCAGGGTTACAGCTAGC	2280	
2221	Db	AT	GCACTGGA	ATCGGGGACTCTGCAAGTGGATTAACCCAGGCTCAGGGTTACAGCTAGC	2280	

Qy 2281 CTCCTAGTTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAATAACTCAGTCACCTG 2340
Db CTCCTAGTTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAATAACTCAGTCACCTG 2340
Qy 2341 GTTTCCCATCTCTAAGCCCTTAACCTGCAGCTTCGTTTAATGTAGCTCTTGCATGGGAG 2400
Db GTTTCCCATCTCTAAGCCCTTAACCTGCAGCTTCGTTTAATGTAGCTCTTGCATGGGAG 2400
Qy 2401 TTTCTAGATGAACACCTCTCCATGGGATTTGAACATATGACTATTTGTAGGGGAAGA 2460
Db TTTCTAGATGAACACCTCTCCATGGGATTTGAACATATGACTATTTGTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAAGAACACCGTCCCTCAGCCCCACAGCAGCTGCTTTTGGCT 2520
Db GTCTGAGGGGCAACACACAAGAACACCGTCCCTCAGCCCCACAGCAGCTGCTTTTGGCT 2520
Qy 2521 GATCACCCCTCTTACCTTTATCAGGATGTGGCTGTGGTCTTCTGTGCGCATCA 2580
Db GATCACCCCTCTTACCTTTATCAGGATGTGGCTGTGGTCTTCTGTGCGCATCA 2580
Qy 2581 CAGAGACACAGCATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGGAATCCAT 2640
Db CAGAGACACAGCATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGTCTAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Db TGCTAGCTTTTCTGTGTGTCTAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Qy 2701 GGTCCCTGAGATAGCTGTCATTTGGGCTGATATGCGCAGAAATCTTCTTCTCTGGGT 2760
Db GGTCCCTGAGATAGCTGTCATTTGGGCTGATATGCGCAGAAATCTTCTTCTCTGGGT 2760
Qy 2761 CTGCCCCCACAATGCTTAACCCAGGACCTTGGAATTTCTACTCATCCCAATGATAAT 2820
Db CTGCCCCCACAATGCTTAACCCAGGACCTTGGAATTTCTACTCATCCCAATGATAAT 2820
Qy 2821 TCCAAATGCTGTTACCAAGGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db TCCAAATGCTGTTACCAAGGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAACGGTCTCCCTAACCAACCCCTCTCTCTGGCCAGCCTGCTTCCCACTTCCA 2940
Db CTCAACGGTCTCCCTAACCAACCCCTCTCTCTGGCCAGCCTGCTTCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTAGAGCTGGGCTGATGAAGCAGCTGCCCAAAATTTCCCTTACC 3000
Db CTCCCTCTACTCTCTAGAGCTGGGCTGATGAAGCAGCTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCCCTGTTTGGAGCTACT 3060
Db CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCCCTGTTTGGAGCTACT 3060
Qy 3061 GCAGGACAGAGACAAAGTCGGGTTTCCCAAGCCTTTGTCCAATCTCAGCCCCCAGAGT 3120
Db GCAGGACAGAGACAAAGTCGGGTTTCCCAAGCCTTTGTCCAATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTCTGGGGAATCTCACAGAAACTCAGAGCAACCCCTGCCTGAGCTAAGG 3180
Db ATATCTGTCTGGGGAATCTCACAGAAACTCAGAGCAACCCCTGCCTGAGCTAAGG 3180
Qy 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTCCGGTTTGGCAATATGTCCTTATTTATT 3240
Db GAGGTCTTATCTCTCAGGGGGGTTTAAAGTCCGGTTTGGCAATATGTCCTTATTTATT 3240
Qy 3241 TAGCGGGGTGAATATTTTATCTGAAGTGAGCAATCAGAGTATAATGTTTATGGTGACA 3300
Db TAGCGGGGTGAATATTTTATCTGAAGTGAGCAATCAGAGTATAATGTTTATGGTGACA 3300
Qy 3301 AAATTAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db AAATTAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360

Qy 3361 AA 3410
Db 3361 AA 3410
RESULT 2
US-09-759-143-110
; Sequence 110, Application US/09759143
; Patent No. US2002002248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-110

Query Match 100.0%; Score 3409.6; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACAGCTCTCAGCGCTGCTCGGGTGACAGCGCGCTCGCGCGCTCGCGCGCTCGG 60
Db 1 GGGAAACAGCTCTCAGCGCTGCTCGGGTGACAGCGCGCTCGCGCGCTCGCGCGCTCGG 60
Qy 61 GTGATGAGAGCTGTCCCTCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCTCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120
Qy 121 AAGCTGGAACCGGCAACAAAGGCTGGCAGAAATGGGCGCTTGGCTGATTCCTAGGCAAGTT 180
Db 121 AAGCTGGAACCGGCAACAAAGGCTGGCAGAAATGGGCGCTTGGCTGATTCCTAGGCAAGTT 180
Qy 181 GCGGCGAGCAAGAGAGAGAGCGCGCTTCTGAGCAGAGCGCAGAGCAAGCAAGTTCTG 240
Db 181 GCGGCGAGCAAGAGAGAGAGCGCGCTTCTGAGCAGAGCGCAGAGCAAGCAAGTTCTG 240
Qy 241 GAGTGTCTGAACCGGCGCTTGAAGCTTCCCGCTGAGCTTATGTCAGAGGCTGTG 300
Db 241 GAGTGTCTGAACCGGCGCTTGAAGCTTCCCGCTGAGCTTATGTCAGAGGCTGTG 300
Qy 301 GGTGAGCGGCTGCTCGGCAACCGGAAAGCCAGCTTGTGCTGGTCAACTGCTTAACCTT 360
Db 301 GGTGAGCGGCTGCTCGGCAACCGGAAAGCCAGCTTGTGCTGGTCAACTGCTTAACCTT 360
Qy 361 TGGCTTGGAGGTGTTTGGCCGCGCATCATTATGTCGCCCTCTGCTGCTGAGT 420
Db 361 TGGCTTGGAGGTGTTTGGCCGCGCATCATTATGTCGCCCTCTGCTGCTGAGT 420
Qy 421 GGGGGTAGAGGAGAGAGTTTATGACCATGTTGGTGTGGGCAATTTGGTCCAGTGTGGGCTGGT 480

Db 421 ||||| GGGGTAGAGGAAATTCATGACATGGTGTGCGGCATTTGGTCCAGTGTGCGCGCTGGT 480
 Qy 481 CTGTGTCGCGCTTCATAGGCTCAGCCAGTGAACACCTGGCGTGGAGCTATGGCGCGCGCG 540
 Db 481 CTGTGTCGCGCTTCATAGGCTCAGCCAGTGAACACCTGGCGTGGAGCTATGGCGCGCGCG 540
 Qy 541 GCCCTTCATCTGGGCATCTGCTTGGGCATCCTGTGAGCCCTCTTTCTCATCCCAAGGCG 600
 Db 541 GCCCTTCATCTGGGCATCTGCTTGGGCATCCTGTGAGCCCTCTTTCTCATCCCAAGGCG 600
 Qy 601 CGGCTGGCTAGCAGGCTGCTGTGCCCGATCCAGGCCCTTGGAGCTGGGACCTGCTCAT 660
 Db 601 CGGCTGGCTAGCAGGCTGCTGTGCCCGATCCAGGCCCTTGGAGCTGGGACCTGCTCAT 660
 Qy 661 CCTGGGCGTGGGCTGCTGGACTCTGTGGCCAGGTGCTTCACTCCACCTGGAGGCCCT 720
 Db 661 CCTGGGCGTGGGCTGCTGGACTCTGTGGCCAGGTGCTTCACTCCACCTGGAGGCCCT 720
 Qy 721 GCTCTCTGACCTCTTCCGGGACCCGGACCACTGTGCCAGGCGCTACTCTGTCTATGCCCT 780
 Db 721 GCTCTCTGACCTCTTCCGGGACCCGGACCACTGTGCCAGGCGCTACTCTGTCTATGCCCT 780
 Qy 781 CATGATCAGTCTTGGGCGCTGCTGGGCTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
 Db 781 CATGATCAGTCTTGGGCGCTGCTGGGCTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
 Qy 841 TGCCCTGCGCCCTTACCTGGGACCCAGGAGGCTCTTGGGCTGCTGCTGCTGCTGCTGCTG 900
 Db 841 TGCCCTGCGCCCTTACCTGGGACCCAGGAGGCTCTTGGGCTGCTGCTGCTGCTGCTGCTG 900
 Qy 901 TTCTCTACCTGCTAGCAGCCACACTGCTGTGGCTGAGGAGGAGCGCTGGGCGCCAC 960
 Db 901 TTCTCTACCTGCTAGCAGCCACACTGCTGTGGCTGAGGAGGAGCGCTGGGCGCCAC 960
 Qy 961 CGAGCAGCAGAGGCTGTGGGCGCCCTCTGTGTGGCGCCACTGCTGTGCTGCTGCTGCTG 1020
 Db 961 CGAGCAGCAGAGGCTGTGGGCGCCCTCTGTGTGGCGCCACTGCTGTGCTGCTGCTGCTG 1020
 Qy 1021 CGGCTTGGCTTTCGGAACCTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGCTGCG 1080
 Db 1021 CGGCTTGGCTTTCGGAACCTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGCTGCG 1080
 Qy 1081 CATGCCCGCACCTTCGCGCGCTCTTCTGTGGCTGAGCTGTGCTGCTGCTGCTGCTGCTG 1140
 Db 1081 CATGCCCGCACCTTCGCGCGCTCTTCTGTGGCTGAGCTGTGCTGCTGCTGCTGCTGCTG 1140
 Qy 1141 GACCTTCAGCTGTTTTACAGGATTTCTGTGGCGAGGCGCTGTACAGGCGCTGCCAG 1200
 Db 1141 GACCTTCAGCTGTTTTACAGGATTTCTGTGGCGAGGCGCTGTACAGGCGCTGCCAG 1200
 Qy 1201 AGCTGAGCGGGCACCGAGGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCGAGCT 1260
 Db 1201 AGCTGAGCGGGCACCGAGGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCGAGCT 1260
 Qy 1261 GGGGCTGTTCTGCACTGCGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
 Db 1261 GGGGCTGTTCTGCACTGCGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
 Qy 1321 CGAGCGATTCGGCACTCGAGCGCTATTTGGCCAGTGTGGGAGCTTTCCTGTGGCTGTC 1380
 Db 1321 CGAGCGATTCGGCACTCGAGCGCTATTTGGCCAGTGTGGGAGCTTTCCTGTGGCTGTC 1380
 Qy 1381 CGGTGCCACATGCTGCTCCACAGTGTGGCGTGTGAGCAGCTTCAGCGCGGCTCACCGG 1440
 Db 1381 CGGTGCCACATGCTGCTCCACAGTGTGGCGTGTGAGCAGCTTCAGCGCGGCTCACCGG 1440
 Qy 1441 GTTCACTTCTCAGCGCTTCAGATCCTGCTTACACTGCGCTCTCTTACCAACCGGGA 1500
 Db 1441 GTTCACTTCTCAGCGCTTCAGATCCTGCTTACACTGCGCTCTCTTACCAACCGGGA 1500
 Qy 1501 GNAGCAGTGTCTCCGCAATACCGAGGGGACACTGGAGGTGTAGCAGTGGAGCAG 1560

Db 1501 GAACGAGGTGTCTCTGCCCAAAATACCGAGGGGAACACTGGAGGTGCTAGCAGTAGGACAG 1560
 Qy 1561 CCTGATGACCAAGCTTCTCTGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTAATGACACGT 1620
 Db 1561 CCTGATGACCAAGCTTCTCTGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTAATGACACGT 1620
 Qy 1621 GGGTGTGGAGGAGTGGCTGCTGCCACCTTCCACCCGCGCTCTGCGGGGCTCTGCGCTG 1680
 Db 1621 GGGTGTGGAGGAGTGGCTGCTGCCACCTTCCACCCGCGCTCTGCGGGGCTCTGCGCTG 1680
 Qy 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGG 1740
 Db 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGG 1740
 Qy 1741 GGGCATCTGCTGACCTCGCCATCTCTGGATAGTGCCTTCTGCTGCCAGGTGGGCCCC 1800
 Db 1741 GGGCATCTGCTGACCTCGCCATCTCTGGATAGTGCCTTCTGCTGCCAGGTGGGCCCC 1800
 Qy 1801 ATCCCTGTTATGGGCTCCATTTGTCCAGCTCAGCCAGCTGTGCTACCTGCTATATGGTGT 1860
 Db 1801 ATCCCTGTTATGGGCTCCATTTGTCCAGCTCAGCCAGCTGTGCTACCTGCTATATGGTGT 1860
 Qy 1861 TGCCGAGGCTGGGCTGCTGCTGCGCATTTACTTTGTCTACACAGGTAGTATTTGACAAG 1920
 Db 1861 TGCCGAGGCTGGGCTGCTGCTGCGCATTTACTTTGTCTACACAGGTAGTATTTGACAAG 1920
 Qy 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATCTTCAGCACATTTGGGGTGGAGGCGCTGCT 1980
 Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATCTTCAGCACATTTGGGGTGGAGGCGCTGCT 1980
 Qy 1981 CACTGGGTGCCAGCTCCCGCTCTGTAGCCCATAGGGGCTGCGGGCTGCGCGCCAGT 2040
 Db 1981 CACTGGGTGCCAGCTCCCGCTCTGTAGCCCATAGGGGCTGCGGGCTGCGCGCCAGT 2040
 Qy 2041 TTCTGTTGCTGCCAAAGTAAATGTTGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2100
 Db 2041 TTCTGTTGCTGCCAAAGTAAATGTTGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2100
 Qy 2101 GCTGCACAGCTGGGGGCTGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2160
 Db 2101 GCTGCACAGCTGGGGGCTGGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2160
 Qy 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAGAGGCTCC 2220
 Db 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAGAGGCTCC 2220
 Qy 2221 ATGCACCTGGAAATGGGGGACTCTGCGAGTGGATTACCCAGGCTCAGGCTTAAACAGT 2280
 Db 2221 ATGCACCTGGAAATGGGGGACTCTGCGAGTGGATTACCCAGGCTCAGGCTTAAACAGT 2280
 Qy 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAAATAAATCAGTCACTG 2340
 Db 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAAATAAATCAGTCACTG 2340
 Qy 2341 GTTTCCCATCTTAAGCCCTTAACTGCGAGCTGCTGTTTAAATGATGCTCTTGTGATGGAG 2400
 Db 2341 GTTTCCCATCTTAAGCCCTTAACTGCGAGCTGCTGTTTAAATGATGCTCTTGTGATGGAG 2400
 Qy 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
 Db 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
 Qy 2461 GTCTGAGGGGCAACACCAAGAACCCAGGTCCTCAGGCCACAGCAGCTGCTTTTGTCT 2520
 Db 2461 GTCTGAGGGGCAACACCAAGAACCCAGGTCCTCAGGCCACAGCAGCTGCTTTTGTCT 2520
 Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTTGGCTCTGCTGCTGCTGCTGCT 2580
 Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTTGGCTCTGCTGCTGCTGCTGCT 2580
 Qy 2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGGGAATCCAT 2640
 Db 2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGGGAATCCAT 2640

2641 TGCTAGCTTTTCTGTGTTGGTGTCTAATATTGGGTAGGGTGGGGATFCCCAACAATCA 2700
Db TGCTAGCTTTTCTGTGTTGGTGTCTAATATTGGGTAGGGTGGGGATFCCCAACAATCA 2700
Qy GGTCCCTGAGATAGCTGGTCAATGGGCTGATCATTTGCCAGAAATCTTCTCTGGGGT 2760
Db GGTCCCTGAGATAGCTGGTCAATGGGCTGATCATTTGCCAGAAATCTTCTCTGGGGT 2760
Qy CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAAAATGATAAT 2820
Db CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAAAATGATAAT 2820
Qy TCCAAATGCTTTACCCAAAGTTAGGGTGTGTAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db TCCAAATGCTTTACCCAAAGTTAGGGTGTGTAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy CTCAAGGGCTTCCCTAACCAACCCCTCTCTCTTGGGCCAGCTGGTTCCTCCCACTTCCA 2940
Db CTCAAGGGCTTCCCTAACCAACCCCTCTCTCTTGGGCCAGCTGGTTCCTCCCACTTCCA 2940
Qy CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Qy CCCAACTTTCCCTTACCCCAACTTTCCCAACCACTTCCCAACCACTTCTGGAGCTACT 3060
Db CCCAACTTTCCCTTACCCCAACTTTCCCAACCACTTCCCAACCACTTCTGGAGCTACT 3060
Qy GCAGGACAGAAAGTGGGGTTCCTCAACCACTTCCCAACCACTTCTGGAGCTACT 3120
Db GCAGGACAGAAAGTGGGGTTCCTCAACCACTTCCCAACCACTTCTGGAGCTACT 3120
Qy ATATCTGTGCTGGGGAATCTCACAGAACTCAGGACACCCCTGCTGAGCTAAGG 3180
Db ATATCTGTGCTGGGGAATCTCACAGAACTCAGGACACCCCTGCTGAGCTAAGG 3180
Qy GAGGTCTTATCTCTCAGGGGGGGTTAAGTCCCGTTTGCATTAATGCTTATTATT 3240
Db GAGGTCTTATCTCTCAGGGGGGGTTAAGTCCCGTTTGCATTAATGCTTATTATT 3240
Qy TAGCGGGTGAATATTTTATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db TAGCGGGTGAATATTTTATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Db AAATTAAGGCTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Qy AA 3410
Db AA 3410

RESULT 3

US-09-780-669-110
; Sequence 110, Application US/09780669
; Patent No. US2002005197A1

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-780-669-110

Query Match 100.0%; Score 3409.6; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACAGCCTGACGCGCTGCGGTGACAGCCGCGGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACAGCCTGACGCGCTGCGGTGACAGCCGCGGCTCGGCCAGGATCTGA 60
Qy 61 GTGATGAGAGCTGCCCCACTGAGGTGCCCAACAGCAGCAGGTGTTTTCAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGCCCCACTGAGGTGCCCAACAGCAGCAGGTGTTTTCAGCATGGCTGAG 120
Qy 121 AAGCTGAGACCGGACCAAAAGGGCTGCGAGAAATGGGCGCTGCTGATTTCTAGGCAGTT 180
Db 121 AAGCTGAGACCGGACCAAAAGGGCTGCGAGAAATGGGCGCTGCTGATTTCTAGGCAGTT 180
Qy 181 GGGGACAGAAAGGAGAGAGCGCGCAGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG 240
Db 181 GGGGACAGAAAGGAGAGAGCGCGCAGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG 240
Qy 241 GAGTGTGTAACCGGCGCCCTGAGCCCTACCGGCTGCGCCCACTATGCTCCAGAGGCTGTG 300
Db 241 GAGTGTGTAACCGGCGCCCTGAGCCCTACCGGCTGCGCCCACTATGCTCCAGAGGCTGTG 300
Qy 301 GGTGAGCGCGCTCTGCGGCACCGGAAAGCCAGCTTCTGCTGTCAACCTGCTAAACCTT 360
Db 301 GGTGAGCGCGCTCTGCGGCACCGGAAAGCCAGCTTCTGCTGTCAACCTGCTAAACCTT 360
Qy 361 TGGCTTGGAGGTGTGTTTGGCCGAGCATCACTATGTCGCGCTCTGCTGTGGAAGT 420
Db 361 TGGCTTGGAGGTGTGTTTGGCCGAGCATCACTATGTCGCGCTCTGCTGTGGAAGT 420
Qy 421 GGGGTAGAGAGAGTTTCATGACCATGGTGGGCTTGGTCCAGTGTGGGCTGGT 480
Db 421 GGGGTAGAGAGAGTTTCATGACCATGGTGGGCTTGGTCCAGTGTGGGCTGGT 480
Qy 481 CTGTGTCGCGCTCTAGGCTCAGCAGTGACCACTGGCGTGGAGCTATGCGCCCGCG 540
Db 481 CTGTGTCGCGCTCTAGGCTCAGCAGTGACCACTGGCGTGGAGCTATGCGCCCGCG 540
Qy 541 GCCCTTCACTGGGCACTGTCCTTGGGCACTCCTATGTCGCGCTCTTCTCATCCAGGGC 600
Db 541 GCCCTTCACTGGGCACTGTCCTTGGGCACTCCTATGTCGCGCTCTTCTCATCCAGGGC 600
Qy 601 CGGCTGAGCAGGGCTGCTGTCGCGGATCCAGGCTCCAGGCTGGAGCTGGCTCAT 660
Db 601 CGGCTGAGCAGGGCTGCTGTCGCGGATCCAGGCTCCAGGCTGGAGCTGGCTCAT 660
Qy 661 CTTGGGCGTGGGCTGCTGGACTTCTGTGGCAGGCTGCTTCACTCCAGTGGAGGCT 720
Db 661 CTTGGGCGTGGGCTGCTGGACTTCTGTGGCAGGCTGCTTCACTCCAGTGGAGGCT 720
Qy 721 GCTCTCTGACCTTCTCGGAGCCGAGCACTGTCGCGGCTTCTGCTCTATGCTT 780
Db 721 GCTCTCTGACCTTCTCGGAGCCGAGCACTGTCGCGGCTTCTGCTCTATGCTT 780

721	Db	GCTCTCTGACCTCTTCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATAGCCTT	780
781	Qy	CATGATCAGTCTTGGGGGCTGCCTGGGTACTCTCTGCTGCCATTCAGCTGGGACACAG	840
781	Db	CATGATCAGTCTTGGGGGCTGCCTGGGTACTCTCTGCTGCCATTCAGCTGGGACACAG	840
841	Qy	TGCCCTGGCCCCCTACTTGGGCAACCCAGGAGGAGTGCTCTTTTGGCTGTCTACCTCAT	900
841	Db	TGCCCTGGCCCCCTACTTGGGCAACCCAGGAGGAGTGCTCTTTTGGCTGTCTACCTCAT	900
901	Qy	CTTCTCACCCTGCGTAGCAGCCACACTGCTGGTGGCTGAGGAGCAGCGTGGGCCCCAC	960
901	Db	CTTCTCACCCTGCGTAGCAGCCACACTGCTGGTGGCTGAGGAGCAGCGTGGGCCCCAC	960
961	Qy	CGAGCCAGCAGAAGGGCTGTCCGGCCCCCTCTCTGTGCCCCCACTGCTGTCAATGCCGGC	1020
961	Db	CGAGCCAGCAGAAGGGCTGTCCGGCCCCCTCTCTGTGCCCCCACTGCTGTCAATGCCGGC	1020
1021	Qy	CCGCTTGGCTTTCCGGAACTTGGGCGCCCTGCTTTCCC CGGCTGCACAGCTGTGTCGG	1080
1021	Db	CCGCTTGGCTTTCCGGAACTTGGGCGCCCTGCTTTCCC CGGCTGCACAGCTGTGTCGG	1080
1081	Qy	CATGCCCGGCAACCTTGC CGGCTCTTCTGTGGCTGAGCTGTGACGTGGATGGCACTCAT	1140
1081	Db	CATGCCCGGCAACCTTGC CGGCTCTTCTGTGGCTGAGCTGTGACGTGGATGGCACTCAT	1140
1141	Qy	GACCTTCACGCTGTTTTACACGGAATTCGTGGGCGAGGGCTGTAC CAGGCGTGGCCAG	1200
1141	Db	GACCTTCACGCTGTTTTACACGGAATTCGTGGGCGAGGGCTGTAC CAGGCGTGGCCAG	1200
1201	Qy	AGCTGAGCCGGGCAACCGAGGCCCGGAGACACTATGATGAAGGCGTTCCGATGGG CAGCCT	1260
1201	Db	AGCTGAGCCGGGCAACCGAGGCCCGGAGACACTATGATGAAGGCGTTCCGATGGG CAGCCT	1260
1261	Qy	GGGCTGTTCTCGAGTGC CGCATCTCCCTGGTCTTCTCTGTGTCATGACCGGCTGGT	1320
1261	Db	GGGCTGTTCTCGAGTGC CGCATCTCCCTGGTCTTCTCTGTGTCATGACCGGCTGGT	1320
1321	Qy	GCAGCGAATCGGCACTCGACAGTCTATTTGGCCAGTGC GCACTTCCCTGTGGCTGC	1380
1321	Db	GCAGCGAATCGGCACTCGACAGTCTATTTGGCCAGTGC GCACTTCCCTGTGGCTGC	1380
1381	Qy	CGGTGCCACATGCCTGTCCACAGTGTGGCGTGGTGACAGCTTCAGCCGCCCTCACCGG	1440
1381	Db	CGGTGCCACATGCCTGTCCACAGTGTGGCGTGGTGACAGCTTCAGCCGCCCTCACCGG	1440
1441	Qy	GTTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCTCTCCCTTAC CACCGGGA	1500
1441	Db	GTTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCTCTCCCTTAC CACCGGGA	1500
1501	Qy	GAAGCAGGTGTTCTTGCCCCAAATACCAGGGGACACTGGAAGTGTCTAGCAGTGGAGCAG	1560
1501	Db	GAAGCAGGTGTTCTTGCCCCAAATACCAGGGGACACTGGAAGTGTCTAGCAGTGGAGCAG	1560
1561	Qy	CCTGATGACACAGCTTCTTGCCAGGCCCTAAGCCCTGGAGCTCCCTTCCCTAATGGACACGT	1620
1561	Db	CCTGATGACACAGCTTCTTGCCAGGCCCTAAGCCCTGGAGCTCCCTTCCCTAATGGACACGT	1620
1621	Qy	GGGTGCTGGAAGCAGTGGCTGTCTCCACCTTCCACCGCGCTCTGGGGGCTCTGCGCTG	1680
1621	Db	GGGTGCTGGAAGCAGTGGCTGTCTCCACCTTCCACCGCGCTCTGGGGGCTCTGCGCTG	1680
1681	Qy	TGATGTTCTCCGTACGTGTGTGGGTGAGCCCCACCGAGGCCAGGGTGGTTCGGGGCGG	1740
1681	Db	TGATGTTCTCCGTACGTGTGTGGGTGAGCCCCACCGAGGCCAGGGTGGTTCGGGGCGG	1740
1741	Qy	GGGCATCTGCTGGAACCTCGCCATCTCTGGATAGTGGCTTCTCTGCTGCCAGGTGGCCCC	1800
1741	Db	GGGCATCTGCTGGAACCTCGCCATCTCTGGATAGTGGCTTCTCTGCTGCCAGGTGGCCCC	1800
1801	Qy	ATCCCTGTTATGGGCTCCATTGTCAGCTCAGCCAGTCTGTCTCACTGCCTATATGTFGTC	1860
1801	Db	ATCCCTGTTATGGGCTCCATTGTCAGCTCAGCCAGTCTGTCTCACTGCCTATATGTFGTC	1860

Qy	1861	TGCGCAGGCCTCGGGTCTGGTGCGCCAATTTACTTTTGCTACACAGGTAGTATTTGACAAAGAG	1920
Db	1861	TGCGCAGGCCTCGGGTCTGGTGCGCCAATTTACTTTTGCTACACAGGTAGTATTTGACAAAGAG	1920
Qy	1921	CGACTTGGCCAAATACTCAGCGTAGAAAACCTTCCACACATATGGGGTGGAGGSCCTGCGCT	1980
Db	1921	CGACTTGGCCAAATACTCAGCGTAGAAAACCTTCCAGCACATTTGGGTGGAGGSCCTGCGCT	1980
Qy	1981	CACTGGGTCCACAGTCCCCTCGCTCTGTAGTACCCCATGGGGCTGCGGGCTGGCGCGCAGT	2040
Db	1981	CACTGGGTCCACAGTCCCCTCGCTCTGTAGTACCCCATGGGGCTGCGGGCTGGCGCGCAGT	2040
Qy	2041	TTCTGTTGTCGCAAAAGTAATGTGGCTCTCTGCTGCGCACCCCTGTGCTGTGAGAGTGCCTA	2100
Db	2041	TTCTGTTGTCGCAAAAGTAATGTGGCTCTCTGCTGCGCACCCCTGTGCTGTGAGAGTGCCTA	2100
Qy	2101	GCTGCACAGCTGGGGCTGGGGGCTCCCTCTCTCTCTCCCCAGTCTCTAGGGCTGCCTG	2160
Db	2101	GCTGCACAGCTGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTAGGGCTGCCTG	2160
Qy	2161	ACTGAGAGCCTTCCAAAGGGGTTTCAAGTCTGAGCTATATACAGGAGGCGCAGAAAGGCTCC	2220
Db	2161	ACTGAGAGCCTTCCAAAGGGGTTTCAAGTCTGGAATATACAGGAGGCGCAGAAAGGCTCC	2220
Qy	2221	ATGCACCTGGAATCGGGGACTCTGCAGGTGGATTACCAGGCTCAGGGTTTACAGCTAGC	2280
Db	2221	ATGCACCTGGAATCGGGGACTCTGCAGGTGGATTACCAGGCTCAGGGTTTACAGCTAGC	2280
Qy	2281	CTCCTAGTTGAGACACACCTTAGAAGAGGGTTTTTGGAGCTGAATAAACTCATGCACCTG	2340
Db	2281	CTCCTAGTTGAGACACACCTTAGAAGAGGGTTTTTGGAGCTGAATAAACTCATGCACCTG	2340
Qy	2341	GTTTCCCATCTCAAAGCCCTTAACTGCAGCTTCGTTTTAAATGTAGCTCTTGTCATGGGAG	2400
Db	2341	GTTTCCCATCTCAAAGCCCTTAACTGCAGCTTCGTTTTAAATGTAGCTCTTGTCATGGGAG	2400
Qy	2401	TTTCTAGGATGAACACTCTCCTCAATGGGATTTGAAACATATGACTTATTTGTAGGGGAAAGA	2460
Db	2401	TTTCTAGGATGAACACTCTCCTCAATGGGATTTGAAACATATGACTTATTTGTAGGGGAAAGA	2460
Qy	2461	GTCTGAGGGGGAACACACAGAACACAGGTCCCTCAGGCCACAGCACTGTCTTTTGGCT	2520
Db	2461	GTCTGAGGGGGAACACACAGAACACAGGTCCCTCAGGCCACAGCACTGTCTTTTGGCT	2520
Qy	2521	GATCCACCCCTCTTACCTTTTATCAGATGTGGCTGTGTGCTCTCTGTGTGCCATCA	2580
Db	2521	GATCCACCCCTCTTACCTTTTATCAGATGTGGCTGTGTGCTCTCTGTGTGCCATCA	2580
Qy	2581	CAGAGACACAGGCATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGAAATCCAT	2640
Db	2581	CAGAGACACAGGCATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGAAATCCAT	2640
Qy	2641	TGCTAGCTTTCTGTCTGTCTTAATATTTGGGTAGGCTGGGGATCCCCAACATCA	2700
Db	2641	TGCTAGCTTTCTGTCTGTCTTAATATTTGGGTAGGCTGGGGATCCCCAACATCA	2700
Qy	2701	GGTCCCTCAGATAGCTGGTCAATTTGGGCTGATCATTTGCCAGAAATCTTTCTCTGGGGT	2760
Db	2701	GGTCCCTCAGATAGCTGGTCAATTTGGGCTGATCATTTGCCAGAAATCTTTCTCTGGGGT	2760
Qy	2761	CTGGCCCCCAAAATGCTTAACCCAGGACTTGGGAAATTTCTACTCATCCCAATGATAAT	2820
Db	2761	CTGGCCCCCAAAATGCTTAACCCAGGACTTGGGAAATTTCTACTCATCCCAATGATAAT	2820
Qy	2821	TCCAAATGCTGTTTACCACAAAGTTAGGCTGTGTAAGGAAGGTAGAGGGTGGGCTTCAGGT	2880
Db	2821	TCCAAATGCTGTTTACCACAAAGTTAGGCTGTGTAAGGAAGGTAGAGGGTGGGCTTCAGGT	2880
Qy	2881	CTCAAAGGCTTCCCTAACCAACCCCTCTTCTCTTGGGCCAGCCTGGTTCCTCCCATCTTCA	2940
Db	2881	CTCAAAGGCTTCCCTAACCAACCCCTCTTCTTGGGCCAGCCTGGTTCCTCCCATCTTCA	2940

QY 2941 CTCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
QY 3001 CCCAACTTTCCCTTACCCCACTTTCCCAAGGCTTTGTCCTCTCTAGGACTTACT 3060
Db 3001 CCCAACTTTCCCTTACCCCACTTTCCCAAGGCTTTGTCCTCTCTAGGACTTACT 3060
QY 3061 GCAGGACCAAGACCAAAAGTTCGGTTCCTCAAGGCTTTGTCCTCTCTAGGACTTACT 3120
Db 3061 GCAGGACCAAGACCAAAAGTTCGGTTCCTCAAGGCTTTGTCCTCTCTAGGACTTACT 3120
QY 3121 ATATCTGTGCTGGGAATCTCACACAGAACTCAGAGCAACCCCTGCTGAGCTAAG 3180
Db 3121 ATATCTGTGCTGGGAATCTCACACAGAACTCAGAGCAACCCCTGCTGAGCTAAG 3180
QY 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTCCGCTTTGCAATAATGCTTATTTATT 3240
Db 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTCCGCTTTGCAATAATGCTTATTTATT 3240
QY 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGTTGACA 3300
Db 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGTTGACA 3300
QY 3301 AAATTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
QY 3361 AA 3410
Db 3361 AA 3410

RESULT 4
US-09-030-606-110
; Sequence 110, Application US/09030606
; Patent No. US20020081580A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS F
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030.606
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.428C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:

; ORGANISM: Homo sapiens
US-09-030-606-110
Query Match 100.0%; Score 3409.6; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAACACAGGCTGCACGCGCTGGCTCGGGGTGACAGCCGCGCGCTCGGCAGGATCTGA 60
Db 1 GGAACACAGGCTGCACGCGCTGGCTCGGGGTGACAGCCGCGCGCTCGGCAGGATCTGA 60
QY 61 GTGATGAGAGTGTCTCCCACTGAGGTGCCCAACAGCAGCAGGTGTGAGCATGGGCTGAG 120
Db 61 GTGATGAGAGTGTCTCCCACTGAGGTGCCCAACAGCAGCAGGTGTGAGCATGGGCTGAG 120
QY 121 AAGCTGACCGCGCACCAAAAGGCTGGCAGAAATGGGCGCTGGCTGATTTCTAGGCAAGTT 180
Db 121 AAGCTGACCGCGCACCAAAAGGCTGGCAGAAATGGGCGCTGGCTGATTTCTAGGCAAGTT 180
QY 181 GGGCGCAGCAAGGAGGAGGCGCGCAGCTTCTGAGCAGAGCCGAGAGCAAGCAAGTTCTG 240
Db 181 GGGCGCAGCAAGGAGGAGGCGCGCAGCTTCTGAGCAGAGCCGAGAGCAAGCAAGTTCTG 240
QY 241 GAGTGTCTGAAACGCGCCCTGAGCCCTACCGCGCTGGCCCACTATGCTCCAGAGGCTGTG 300
Db 241 GAGTGTCTGAAACGCGCCCTGAGCCCTACCGCGCTGGCCCACTATGCTCCAGAGGCTGTG 300
QY 301 GGTGAGCGGCTGTCTGGCGCACCGGAAAGCCAGCTTCTGCTGCTCAACCTGCTAACTTT 360
Db 301 GGTGAGCGGCTGTCTGGCGCACCGGAAAGCCAGCTTCTGCTGCTCAACCTGCTAACTTT 360
QY 361 TGGCTGTGAGGTGTGTTGGCGCAGGCATCACCTATGTGCGGCTCTGCTGCTGGAAGT 420
Db 361 TGGCTGTGAGGTGTGTTGGCGCAGGCATCACCTATGTGCGGCTCTGCTGCTGGAAGT 420
QY 421 GGGGGTAGAGGAGTTCATGACCAATGCTGTGGCAATTTGGTCCAGTGTGGGCTTGGT 480
Db 421 GGGGGTAGAGGAGTTCATGACCAATGCTGTGGCAATTTGGTCCAGTGTGGGCTTGGT 480
QY 481 CTGTGTCCTGCTCTAGGCTGACCGAGTACCACTGGGCTGGAGCTATGGCGCGCCCG 540
Db 481 CTGTGTCCTGCTCTAGGCTGACCGAGTACCACTGGGCTGGAGCTATGGCGCGCCCG 540
QY 541 GCGCTTCTGAGTGTGCTTGGGCACTGCTGTGGCACTCTTCTCATCCCAAGGCG 600
Db 541 GCGCTTCTGAGTGTGCTTGGGCACTGCTGTGGCACTCTTCTCATCCCAAGGCG 600
QY 601 CGGCTGTGCTAGCAGGCTGTGTCGCCGATCCAGGCGCTTGGAGCTGGGCTGCTCAT 660
Db 601 CGGCTGTGCTAGCAGGCTGTGTCGCCGATCCAGGCGCTTGGAGCTGGGCTGCTCAT 660
QY 661 CTTGGGCTGGGCTGTGCTGACCTTCTGTGGCAGGCTGTGCTTCACTCCAGGAGGCGCT 720
Db 661 CTTGGGCTGGGCTGTGCTGACCTTCTGTGGCAGGCTGTGCTTCACTCCAGGAGGCGCT 720
QY 721 GCTCTGTGACCTCTTCCGGGACCGGACCACTGTGCGCAGGCTTCTGTCTATGCTT 780
Db 721 GCTCTGTGACCTCTTCCGGGACCGGACCACTGTGCGCAGGCTTCTGTCTATGCTT 780
QY 781 CATGATCAGTCTTTGGGCTGTGCTGCGCTACCTCTGCTGCTGCTTGGCTGTGCTCACTCAT 840
Db 781 CATGATCAGTCTTTGGGCTGTGCTGCGCTACCTCTGCTGCTGCTTGGCTGTGCTCACTCAT 840
QY 841 TGGCTGTGCGGCTGTGCTGAGCTTCTGTGGCAGGAGTGTGCTTCTTGGCTGTGCTCACTCAT 900
Db 841 TGGCTGTGCGGCTGTGCTGAGCTTCTGTGGCAGGAGTGTGCTTCTTGGCTGTGCTCACTCAT 900
QY 901 CTTTCTCAGCTGTGAGCAGCAGCTGTGCTGGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
Db 901 CTTTCTCAGCTGTGAGCAGCAGCTGTGCTGGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
QY 961 CGAGCCAGCAGAAAGGCTGTGCGGCGGCTCTTGTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Db 961 CGAGCCAGCAGAAAGGCTGTGCGGCGGCTCTTGTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020

QY 3191 GAGGTCTTATCTCTCAGGGGGGTTTAAGTCCGTTTGCATAATATGTCTCTTATTATT 3240
Db 3191 GAGGTCTTATCTCTCAGGGGGGTTTAAGTCCGTTTGCATAATATGTCTCTTATTATT 3240
QY 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAAGCAATCAGAGTATATATGTTATGTTGACA 3300
Db 3241 TAGCGGGGTGAATATTTTATATCTGTAAGTGAAGCAATCAGAGTATATATGTTTATGTTGACA 3300
QY 3301 AAATTAAGGCTTCTTATATGTTTAAAAAAGGCTTAAAAAAGGCTTAAAAAAGGCTTAAAAA 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAAAAAGGCTTAAAAAAGGCTTAAAAAAGGCTTAAAAA 3360
QY 3361 AAAAAAAGGCTTCTTATATGTTTAAAAAAGGCTTAAAAAAGGCTTAAAAAAGGCTTAAAAA 3410
Db 3361 AAAAAAAGGCTTCTTATATGTTTAAAAAAGGCTTAAAAAAGGCTTAAAAAAGGCTTAAAAA 3410

RESULT 5

US-09-822-827-110
; Sequence 110, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-822-827-110

Query Match 100.0%; Score 3409.6; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGAAACAGCTGACGGCTGGCTCGGGTGACAGCGCGCGCTGGCCAGGATCTGA 60
Db 1 GGGAAACAGCTGACGGCTGGCTCGGGTGACAGCGCGCGCTGGCCAGGATCTGA 60
QY 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCAAGCAGCAGGTGTGAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCAAGCAGCAGGTGTGAGCATGGCTGAG 120
QY 121 AAGCTGGACCGGACCAAGGGCTGGCAGAAATGGCGGCTGGCTGATTCCTAGGCAGTT 180
Db 121 AAGCTGGACCGGACCAAGGGCTGGCAGAAATGGCGGCTGGCTGATTCCTAGGCAGTT 180
QY 181 GCGGCGAGCAAGGAGAGAGCCGAGCTTCTGAGCAGAGCCGAGCAGAAAGCAGTTCTG 240
Db 181 GCGGCGAGCAAGGAGAGAGCCGAGCTTCTGAGCAGAGCCGAGCAGAAAGCAGTTCTG 240
QY 241 GAGTGCCTGAACGCGCCCTGAGCCCTACCGCTGCGCCCTGAGCTGATGTCAGAGGCTGTG 300
Db 241 GAGTGCCTGAACGCGCCCTGAGCCCTACCGCTGCGCCCTGAGCTGATGTCAGAGGCTGTG 300
QY 301 GGTGAGCGGCTGTGCGGACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTTAACTTT 360
Db 301 GGTGAGCGGCTGTGCGGACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTTAACTTT 360
QY 361 TGGCTGAGAGGTGTTTGGCGCAGGATCACTATGTCGCGCTCTGTCTGCTGGAAGT 420
Db 361 TGGCTGAGAGGTGTTTGGCGCAGGATCACTATGTCGCGCTCTGTCTGCTGGAAGT 420
QY 421 GGGGAGAGGAGAGTTCATGACCATGCTGCGGATTTGGTCCAGTGTGGGCTGCTGT 480
Db 421 GGGGAGAGGAGAGTTCATGACCATGCTGCGGATTTGGTCCAGTGTGGGCTGCTGT 480
QY 481 CTGTGCTCCGCTCCTAGGCTCAGCCAGTGACCACTGGCGTGAGCGCTATGGCCCGCG 540

Db 481 CTGTGCTCCGCTCCTAGGCTCAGCCAGTGACCACTGGCGTGAGCGCTATGGCCCGCGCG 540
QY 541 GCCCTTATCTGAGGACCTGTCTTGGGACATCTCTGCTGAGCCCTTCTTCTATCCCAAGGC 600
Db 541 GCCCTTATCTGAGGACCTGTCTTGGGACATCTCTGCTGAGCCCTTCTTCTATCCCAAGGC 600
QY 601 CGGCTGGCTAGCAGGCTGTCTGCGCGGATCCAGGCGCTTGGAGCTGGCACTGCTCAT 660
Db 601 CGGCTGGCTAGCAGGCTGTCTGCGCGGATCCAGGCGCTTGGAGCTGGCACTGCTCAT 660
QY 661 CTTGGGCTGGGCTGTCTGAGCTTCTGTGGCCAGGTGTCTTCTCATCTGAGAGCCCT 720
Db 661 CTTGGGCTGGGCTGTCTGAGCTTCTGTGGCCAGGTGTCTTCTCATCTGAGAGCCCT 720
QY 721 GCTCTGACCTCTTCCGGGACCCGAGCCACTGTGCGGAGGCTTCTGCTATGCGCTT 780
Db 721 GCTCTGACCTCTTCCGGGACCCGAGCCACTGTGCGGAGGCTTCTGCTATGCGCTT 780
QY 781 CATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCTTGAATGGGACACCAG 840
Db 781 CATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCTTGAATGGGACACCAG 840
QY 841 TGCCCTGGCCCTTACTCTGGGACCCAGAGGAGTGTCTTCTGCTGCTTCACTCAT 900
Db 841 TGCCCTGGCCCTTACTCTGGGACCCAGAGGAGTGTCTTCTGCTGCTTCACTCAT 900
QY 901 CTTCTCAGCTGTAGCAGCAGCTGTCTGCTGCTGAGGAGGCTTGGGCGCCAC 960
Db 901 CTTCTCAGCTGTAGCAGCAGCTGTCTGCTGCTGAGGAGGCTTGGGCGCCAC 960
QY 961 CGAGCAGCAGAGGCTGTCTGGGCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Db 961 CGAGCAGCAGAGGCTGTCTGGGCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
QY 1021 CCGCTTGGCTTTCGGAACTGGGCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
Db 1021 CCGCTTGGCTTTCGGAACTGGGCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
QY 1081 CATGCCCCGACCTGCGCGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
Db 1081 CATGCCCCGACCTGCGCGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
QY 1141 GACTTCAACCTGTTTTTACACGAGTTTCTGGGCGAGGCTGTACACAGGCGCTGCCCCAG 1200
Db 1141 GACTTCAACCTGTTTTTACACGAGTTTCTGGGCGAGGCTGTACACAGGCGCTGCCCCAG 1200
QY 1201 AGCTGAGCCGGGACCCAGGCGCCGAGACACTATGATGAAGGCTTTCGGATGGGAGCCT 1260
Db 1201 AGCTGAGCCGGGACCCAGGCGCCGAGACACTATGATGAAGGCTTTCGGATGGGAGCCT 1260
QY 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGCTATGAGCCGGCTGGT 1320
Db 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGCTATGAGCCGGCTGGT 1320
QY 1321 GCAGCGATTCGGGACCTGAGCAGCTTATTTGGGCGAGTGTGCGAGCTTTCCTGCTGGCTGC 1380
Db 1321 GCAGCGATTCGGGACCTGAGCAGCTTATTTGGGCGAGTGTGCGAGCTTTCCTGCTGGCTGC 1380
QY 1381 CGGTGCCACATGCTGTCTCCCAAGTGTGGCGCTGGTGACAGCTTTCAGCCGCGCTTCA 1440
Db 1381 CGGTGCCACATGCTGTCTCCCAAGTGTGGCGCTGGTGACAGCTTTCAGCCGCGCTTCA 1440
QY 1441 GTTCACTTCTCAGCCCTGAGATCTCTGCGCTACACTGGCTCTCCCTTACACACCGGGA 1500
Db 1441 GTTCACTTCTCAGCCCTGAGATCTCTGCGCTACACTGGCTCTCCCTTACACACCGGGA 1500
QY 1501 GAAGAGGCTGCTCTGCGCAAAATACCGAGGAGGACCTGAGAGGTGTAGAGTGAAGGACAG 1560
Db 1501 GAAGAGGCTGCTCTGCGCAAAATACCGAGGAGGACCTGAGAGGTGTAGAGTGAAGGACAG 1560
QY 1561 CTTGATGACAGCTTCTCTGCGAGCCCTTAAGCCCTGGAGCTTCCCTTCCCTTAATGACACGT 1620

Qy 1 GGGAAACAGCCTGACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db |||||
1 GGGAAACAGCCTGACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Qy 61 GTGATGAGACGTGTCCCCACCTAGAGGTGCCCCACAGCAGCAGAGGTGTGAGCATGGCTGAG 120
Db |||||
61 GTGATGAGACGTGTCCCCACCTAGAGGTGCCCCACAGCAGCAGAGGTGTGAGCATGGCTGAG 120
Qy 121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGGCGCTGGCTGATTCCTAGGCAGTT 180
Db |||||
121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGGCGCTGGCTGATTCCTAGGCAGTT 180
Qy 181 GGGCGCAGCAGAGGAGGAGCGCCAGCTTCTGGAGCAGAGCCGAGAGCAAGTCTTG 240
Db |||||
181 GGGCGCAGCAGAGGAGGAGGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGTCTTG 240
Qy 241 GAGTGCCTGAACGGCGCCCTGAGCCCTAACCGCTTGGCCCTACATATGCTCAGAGGCTGTG 300
Db |||||
241 GAGTGCCTGAACGGCGCCCTGAGCCCTAACCGCTTGGCCCTACATATGCTCAGAGGCTGTG 300
Qy 301 GGTGAGCGCGCTGTGGGCGACCGGAAGCCAGCTCTTGTGCTCAACCTGCTAAAGCTT 360
Db |||||
301 GGTGAGCGCGCTGTGGGCGACCGGAAGCCAGCTCTTGTGCTCAACCTGCTAAAGCTT 360
Qy 361 TGGCTGTGAGGTGTGTTGGCGCAGGCAATCACCTATGTGCGGCTCTGCTGTGGAAGT 420
Db |||||
361 TGGCTGTGAGGTGTGTTGGCGCAGGCAATCACCTATGTGCGGCTCTGCTGTGGAAGT 420
Qy 421 GGGGGTGAAGAGAGGATTCATGACCATGTGCTGGGCAATGGTCCAGTGTGGCCCTGGT 480
Db |||||
421 GGGGGTGAAGAGAGGATTCATGACCATGTGCTGGGCAATGGTCCAGTGTGGCCCTGGT 480
Qy 481 CTGTGTCCCGCTCTAGGCTCAGCAGTACCACTGAGGCTGGAAGCTATGGCCGCGCGG 540
Db |||||
481 CTGTGTCCCGCTCTAGGCTCAGCAGTACCACTGAGGCTGGAAGCTATGGCCGCGCGG 540
Qy 541 GCCCTTCATCTGGGCACTGTCTTGGGCATCTGCTGAGCCCTCTTCTCATCCCAAGGCG 600
Db |||||
541 GCCCTTCATCTGGGCACTGTCTTGGGCATCTGCTGAGCCCTCTTCTCATCCCAAGGCG 600
Qy 601 CGGTGCTAGCAGGCTGTGTGCCCGGATCCAGGCCCCGTGAGCTGGCACTGCTCAT 660
Db |||||
601 CGGTGCTAGCAGGCTGTGTGCCCGGATCCAGGCCCCGTGAGCTGGCACTGCTCAT 660
Qy 661 CTTGGGCGTGGGCTGTGAGCTTCTGTGGCAGGTGTGCTTCACTCCACTGGAGGCGCT 720
Db |||||
661 CTTGGGCGTGGGCTGTGAGCTTCTGTGGCAGGTGTGCTTCACTCCACTGGAGGCGCT 720
Qy 721 GCTCTGTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTACTCTGTCTATGCTT 780
Db |||||
721 GCTCTGTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTACTCTGTCTATGCTT 780
Qy 781 CATGATCAGTCTTGGGGCTGCTCGGGTACCTCTGCTGCCATTTGACTGGGACACCAG 840
Db |||||
781 CATGATCAGTCTTGGGGCTGCTCGGGTACCTCTGCTGCCATTTGACTGGGACACCAG 840
Qy 841 TGGCCTGGCCCCCTTACTGGGACCCAGAGGAGTGTCTTTGGCCCTGCTCAACCTCAT 900
Db |||||
841 TGGCCTGGCCCCCTTACTGGGACCCAGAGGAGTGTCTTTGGCCCTGCTCAACCTCAT 900
Qy 901 CTTTCTCAGCTGTAGCAGCCACATGCTGGTGGCTGAGGAGGACGGCTGGGCCCCAC 960
Db |||||
901 CTTTCTCAGCTGTAGCAGCCACATGCTGGTGGCTGAGGAGGACGGCTGGGCCCCAC 960
Qy 961 CGAGCCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCCACTGTCTGCATGCCGGG 1020
Db |||||
961 CGAGCCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCCACTGTCTGCATGCCGGG 1020
Qy 1021 CCGCTTGGCTTTCGGGAACCTGGGCGGCTGCTTCCCGGGCTGACCAAGCTGTGCTGCG 1080
Db |||||
1021 CCGCTTGGCTTTCGGGAACCTGGGCGGCTGCTTCCCGGGCTGACCAAGCTGTGCTGCG 1080

Qy 1081 CATGCCCCGACCCCTGCGCGCGCTCTTCTGTGGCTGAGCTGTGACAGCTGGATGGCACTCAT 1140
Db |||||
1081 CATGCCCCGACCCCTGCGCGCGCTCTTCTGTGGCTGAGCTGTGACAGCTGGATGGCACTCAT 1140
Qy 1141 GACCTTCACGCTGTTTTACAGGATTTCTGTGGGCGAGGGGCTGTACAGGGGCTGCCAG 1200
Db |||||
1141 GACCTTCACGCTGTTTTACAGGATTTCTGTGGGCGAGGGGCTGTACAGGGGCTGCCAG 1200
Qy 1201 AGCTGAGCCGGGACCCAGAGCCCGGAGACACTATGATGAAGGCGTTCCGATGGGCGAGCT 1260
Db |||||
1201 AGCTGAGCCGGGACCCAGAGCCCGGAGACACTATGATGAAGGCGTTCCGATGGGCGAGCT 1260
Qy 1261 GGGGCTGTTCTCTCAGTGCGCCATCTCCCTGGTCTTCTCTGTGTCAATGACCCGGCTGGT 1320
Db |||||
1261 GGGGCTGTTCTCTCAGTGCGCCATCTCCCTGGTCTTCTCTGTGTCAATGACCCGGCTGGT 1320
Qy 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
Db |||||
1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
Qy 1381 CGGTGCCACATGCTGTCCACAGTGTGGCGTGGTGACAGCTTCAGCCGCCCTCACCGG 1440
Db |||||
1381 CGGTGCCACATGCTGTCCACAGTGTGGCGTGGTGACAGCTTCAGCCGCCCTCACCGG 1440
Qy 1441 GTTCAACCTTCTCAGCCCTGCAGATCTCCCTACACACTTGCCTCTCTACCAACCGGGA 1500
Db |||||
1441 GTTCAACCTTCTCAGCCCTGCAGATCTCCCTACACACTTGCCTCTCTACCAACCGGGA 1500
Qy 1501 GAAGCAGGTGTTCTGCCCAATAACGAGGGGACACTGAGAGGTGCTAGCAGTAGGACAG 1560
Db |||||
1501 GAAGCAGGTGTTCTGCCCAATAACGAGGGGACACTGAGAGGTGCTAGCAGTAGGACAG 1560
Qy 1561 CCTGATGACCACTTCTCTGCCAGGCTTAAGCCTTGAAGCTTCCCTCTTAAATGACACAGT 1620
Db |||||
1561 CCTGATGACCACTTCTCTGCCAGGCTTAAGCCTTGAAGCTTCCCTCTTAAATGACACAGT 1620
Qy 1621 GGGTGTGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db |||||
1621 GGGTGTGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 TGATGTTCCGTAGTGTGGTGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCG 1740
Db |||||
1681 TGATGTTCCGTAGTGTGGTGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCG 1740
Qy 1741 GGGCATCTGCTGACCTCGCCATCTGAGTGTGCTTCTGCTGTGCCAGGTGGCCCC 1800
Db |||||
1741 GGGCATCTGCTGACCTCGCCATCTGAGTGTGCTTCTGCTGTGCCAGGTGGCCCC 1800
Qy 1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCATATATGGTGTCT 1860
Db |||||
1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCATATATGGTGTCT 1860
Qy 1861 TGCGCAGGCTGGGTGTGCTGCGCATTTACTTTGTCTACACAGTAGTATTTGACAGAG 1920
Db |||||
1861 TGCGCAGGCTGGGTGTGCTGCGCATTTACTTTGTCTACACAGTAGTATTTGACAGAG 1920
Qy 1921 CGACTTTGGCCAAATATCTCAGGCTAGAAAACTTCAGCACAATTTGGGGTGGAGGGCTGCCT 1980
Db |||||
1921 CGACTTTGGCCAAATATCTCAGGCTAGAAAACTTCAGCACAATTTGGGGTGGAGGGCTGCCT 1980
Qy 1981 CACTGGGTCCAGCTCCCCCTCTCTGTAGCCCCATGGGGCTGCGGGGCTGGCCCCAGT 2040
Db |||||
1981 CACTGGGTCCAGCTCCCCCTCTCTGTAGCCCCATGGGGCTGCGGGGCTGGCCCCAGT 2040
Qy 2041 TTCTGTGTGCTGCCCCAAAGTAAATGTGGCTCTCTGTGTGCCACCTCTGTGTGTGAGTGGGTA 2100
Db |||||
2041 TTCTGTGTGCTGCCCCAAAGTAAATGTGGCTCTCTGTGTGCCACCTCTGTGTGTGAGTGGGTA 2100
Qy 2101 GCTGCAAGCTGGGGGCTGGGGCTGCTCTCTCTCTCTCCAGCTCTCTAGGGCTGCTG 2160
Db |||||
2101 GCTGCAAGCTGGGGGCTGGGGCTGCTCTCTCTCTCTCCAGCTCTCTAGGGCTGCTG 2160
Qy 2161 ACTGGAGGCTTCCAGGGGGTTCAGTCTGGACTTATACAGGAGGGCCAGAGGGGCTCC 2220

Db 541 |||||GCCCCATCTGCGGCACTGCTCTTGGGCATCTGCTGAGCCCTCTTCTCATCCCAAGGGC 600
Qy 601 CGGCTGGCTAGCAGGGCTGCTGTCGCCGATCCAGAGCCCTCGAGCTGGCAGCTGCTCAT 660
Db 601 CGGCTGGCTAGCAGGGCTGCTGTCGCCGATCCAGAGCCCTCGAGCTGGCAGCTGCTCAT 660
Qy 661 CCTGGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTGCTTCACTCCACATGGAGGGCCT 720
Db 661 CCTGGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTGCTTCACTCCACATGGAGGGCCT 720
Qy 721 GCTCTGTGACCTCTTTCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATGCGCTT 780
Db 721 GCTCTGTGACCTCTTTCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATGCGCTT 780
Qy 781 CATGATCAGTCTTGGGGCTGCTGGGCTACTCTGCTGCTGCCATTGACTGGGACACCAG 840
Db 781 CATGATCAGTCTTGGGGCTGCTGGGCTACTCTGCTGCTGCCATTGACTGGGACACCAG 840
Qy 841 TGCCCTGGCCCCCTACCTGGGCACCCAGAGGAGTGCCTCTTTGGCCTGTCTCACCCCTCAT 900
Db 841 TGCCCTGGCCCCCTACCTGGGCACCCAGAGGAGTGCCTCTTTGGCCTGTCTCACCCCTCAT 900
Qy 901 CTTCTCTACCTGTAGCAGCCACA CTGTGCTGGCTGAGAGGAGCGCTGGGCCCCAC 960
Db 901 CTTCTCTACCTGTAGCAGCCACA CTGTGCTGGCTGAGAGGAGCGCTGGGCCCCAC 960
Qy 961 CGAGCCAGCAGAAGGGCTGTGGGCCCTCTCTGCTGGCCCCACCTGTCTCATGCCGGGC 1020
Db 961 CGAGCCAGCAGAAGGGCTGTGGGCCCTCTCTGCTGGCCCCACCTGTCTCATGCCGGGC 1020
Qy 1021 CCGCTTGGCTTTCGGGAACCTGGGCGGCCCTGCTTCCCGGCTGCACACAGCTGTGCTGCCG 1080
Db 1021 CCGCTTGGCTTTCGGGAACCTGGGCGGCCCTGCTTCCCGGCTGCACACAGCTGTGCTGCCG 1080
Qy 1081 CATGCCCGCACCCTGCGCGCGCTCTTCTGCTGGCTGAGCTGTGCACTGGACTCAT 1140
Db 1081 CATGCCCGCACCCTGCGCGCGCTCTTCTGCTGGCTGAGCTGTGCACTGGACTCAT 1140
Qy 1141 GACCTTCACGCTGTTTACACGGATTTCTGTTGGGCGAGGGCTGTACAGGCGCTGCCAG 1200
Db 1141 GACCTTCACGCTGTTTACACGGATTTCTGTTGGGCGAGGGCTGTACAGGCGCTGCCAG 1200
Qy 1201 AGCTGAGCCGGCACCGAGGCCGGAGACATATGATGAAGCGTTTCGGATGGGACAGCT 1260
Db 1201 AGCTGAGCCGGCACCGAGGCCGGAGACATATGATGAAGCGTTTCGGATGGGACAGCT 1260
Qy 1261 GGGGCTGTCTGTCAGTGCAGCTCTCCCTGGTCTTCTCTGCTGTGATGGAACCGGCTGGT 1320
Db 1261 GGGGCTGTCTGTCAGTGCAGCTCTCCCTGGTCTTCTCTGCTGTGATGGAACCGGCTGGT 1320
Qy 1321 GCAGCGATTCCGGCACTCGAGGAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
Db 1321 GCAGCGATTCCGGCACTCGAGGAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
Qy 1381 CGGTGCCACATGCTGTGCCACAGTGTGGCGTGGTGACAGCTTCAGCGCGCCCTCACCGG 1440
Db 1381 CGGTGCCACATGCTGTGCCACAGTGTGGCGTGGTGACAGCTTCAGCGCGCCCTCACCGG 1440
Qy 1441 GTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGCGCTCTTCCACACCGGGA 1500
Db 1441 GTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGCGCTCTTCCACACCGGGA 1500
Qy 1501 GAAGCAGTGTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACAG 1560
Db 1501 GAAGCAGTGTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACAG 1560
Qy 1561 CCTGATGACCACTTCTGTCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
Db 1561 CCTGATGACCACTTCTGTCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
Qy 1621 GGGTGTGGAGCAGTGGCTGTCTCCCACTTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db 1621 GGGTGTGGAGCAGTGGCTGTCTCCCACTTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680

Db 1621 GGGTGTGGAGCAGTGGCTGTCTCCCACTTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 TGATGTCTCCGTACGTGTGTGGTGAAGCCACACGAGGCCAGGGTGGTTTCGGGGCGG 1740
Db 1681 TGATGTCTCCGTACGTGTGTGGTGAAGCCACACGAGGCCAGGGTGGTTTCGGGGCGG 1740
Qy 1741 GGGCATCTGCTGGACCTCGCCATCTGCTGGATGTGCTTCTGCTGCCAGGTGGCCCC 1800
Db 1741 GGGCATCTGCTGGACCTCGCCATCTGCTGGATGTGCTTCTGCTGCCAGGTGGCCCC 1800
Qy 1801 ATCCCTGTTTATGGGCTCCATTGTTCAGCTCAGCCAGTCTGTCTCATATATGTTGTC 1860
Db 1801 ATCCCTGTTTATGGGCTCCATTGTTCAGCTCAGCCAGTCTGTCTCATATATGTTGTC 1860
Qy 1861 TGCGCAGGGCTGGTCTGCTGCGCAATTAATCTTGTGTACACAGGTAGTATTTGACAGAG 1920
Db 1861 TGCGCAGGGCTGGTCTGCTGCGCAATTAATCTTGTGTACACAGGTAGTATTTGACAGAG 1920
Qy 1921 CGACTTGGCCAAATATCTCAGCGTAGAAATCTTCAGACATTTGGGGTGGAGGGCTTGCT 1980
Db 1921 CGACTTGGCCAAATATCTCAGCGTAGAAATCTTCAGACATTTGGGGTGGAGGGCTTGCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCTGTGTAGCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCTGTGTAGCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Qy 2041 TTCTGTTGTGTCGCAAGTAATGTGGCTCTCTGCTGTCACACCTGTGCTGCTGAGGTGCGTA 2100
Db 2041 TTCTGTTGTGTCGCAAGTAATGTGGCTCTCTGCTGTCACACCTGTGCTGCTGAGGTGCGTA 2100
Qy 2101 GCTGCAAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db 2101 GCTGCAAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGGAGGCTTCCAGGGGGTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Db 2161 ACTGGAGGCTTCCAGGGGGTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Qy 2221 ATGCACGTGGAATGCGGGGCTCTGCAAGTGGATTTACCCAGGCTCAGGGTTAAACAGTACG 2280
Db 2221 ATGCACGTGGAATGCGGGGCTCTGCAAGTGGATTTACCCAGGCTCAGGGTTAAACAGTACG 2280
Qy 2281 CTCTAGTTGAGACACACCTAGAGAGGGTTTTTGGAGCTGAATAAATCAGTCACTG 2340
Db 2281 CTCTAGTTGAGACACACCTAGAGAGGGTTTTTGGAGCTGAATAAATCAGTCACTG 2340
Qy 2341 GTTTCCCATCTTAAGCCCCCTTAACCTGCACTGTTTAAATGTAGCTCTTGGCATGGGAG 2400
Db 2341 GTTTCCCATCTTAAGCCCCCTTAACCTGCACTGTTTAAATGTAGCTCTTGGCATGGGAG 2400
Qy 2401 TTTCTAGGATGAACACTCTCCATGGGATTTGAAACATATGACTTATTTGTAGGGGAAGA 2460
Db 2401 TTTCTAGGATGAACACTCTCCATGGGATTTGAAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAGAAACCAAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Db 2461 GTCTGAGGGGCAACACACAGAAACCAAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Qy 2521 GATCCACCCCCCTTACCTTTTATCAGGATGTGGCCCTGTGTGCTCTGTTGCCATCA 2580
Db 2521 GATCCACCCCCCTTACCTTTTATCAGGATGTGGCCCTGTGTGCTCTGTTGCCATCA 2580
Qy 2581 CAGAGACACAGGCAATTAATATTTAACTTATTTTAACTTATTTTAACTTATTTTAACTTATTT 2640
Db 2581 CAGAGACACAGGCAATTAATATTTAACTTATTTTAACTTATTTTAACTTATTTTAACTTATTT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGTGCTCTAATAATTTGGGTAGGGTGGGGGATCCCCCAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGTGCTCTAATAATTTGGGTAGGGTGGGGGATCCCCCAACAATCA 2700
Qy 2701 GGTCCCCCTGAGATGCTGCTGATTTGGGCTGATCATTTGCCAGAAATCTTTCTCTCTGCGGT 2760
Db 2701 GGTCCCCCTGAGATGCTGCTGATTTGGGCTGATCATTTGCCAGAAATCTTTCTCTCTGCGGT 2760

[illegible]

RESULT 8

```

RESULT 8
US-09-895-793-110
; Sequence 110, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlos
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.

```

Qy 841 TGCCCTGCCCCCTTACTCTGGGGAACCCAGAGGAGTGCCCTCTTTGGCTGTCTCACCCCTCAT 900
Db 841 TGCCCTGCCCCCTTACTCTGGGGAACCCAGAGGAGTGCCCTCTTTGGCTGTCTCACCCCTCAT 900
Qy 901 CTTCTCACCTGCGTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGCGCTGGGCCCCAC 960
Db 901 CTTCTCACCTGCGTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGCGCTGGGCCCCAC 960
Qy 961 CGAGCCAGCAGAAGGGCTGTGGGCCCCCTCTTGTGCCCCCACTGCTGCATGCCGGGC 1020
Db 961 CGAGCCAGCAGAAGGGCTGTGGGCCCCCTCTTGTGCCCCCACTGCTGCATGCCGGGC 1020
Qy 1021 CCGCTTGGCTTTCCGGAACCTGGGGGCCCTGCTTCCCGCCGCTGACACAGCTGTGTCGCG 1080
Db 1021 CCGCTTGGCTTTCCGGAACCTGGGGGCCCTGCTTCCCGCCGCTGACACAGCTGTGTCGCG 1080
Qy 1081 CATGCCCGCACCTGGCGCGGCTTTCGTGGCTGAGCTGTGCAGCTGGATGGCACTCAT 1140
Db 1081 CATGCCCGCACCTGGCGCGGCTTTCGTGGCTGAGCTGTGCAGCTGGATGGCACTCAT 1140
Qy 1141 GACCTTCACGCTGTTTACACGGATTTCTGGGCGAGGGGCTGTACAGGGCGTGCCCCAG 1200
Db 1141 GACCTTCACGCTGTTTACACGGATTTCTGGGCGAGGGGCTGTACAGGGCGTGCCCCAG 1200
Qy 1201 AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGGCGTTCCGATGGGCGCCT 1260
Db 1201 AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGGCGTTCCGATGGGCGCCT 1260
Qy 1261 GGGGCTGTTCTGAGTGCGGCATCTCCCTGGTCTTCTCTGCTGTCATGGACCGGCTGGT 1320
Db 1261 GGGGCTGTTCTGAGTGCGGCATCTCCCTGGTCTTCTCTGCTGTCATGGACCGGCTGGT 1320
Qy 1321 GCAGCGATTGGCACTCGAGCAGTCTATTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGC 1380
Db 1321 GCAGCGATTGGCACTCGAGCAGTCTATTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGC 1380
Qy 1381 CGGTGCCACATGCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Db 1381 CGGTGCCACATGCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Qy 1441 GTTCACCTTCTCAGCCCTGCAGATCTGCCCTACACACTGGCCCTCCCTCTACCAACCGGA 1500
Db 1441 GTTCACCTTCTCAGCCCTGCAGATCTGCCCTACACACTGGCCCTCCCTCTACCAACCGGA 1500
Qy 1501 GNACAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Db 1501 GNACAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Qy 1561 CCTGATGACCAAGCTTCTGCGAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACACGT 1620
Db 1561 CCTGATGACCAAGCTTCTGCGAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACACGT 1620
Qy 1621 GGGTGTGGAGGAGTGCGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db 1621 GGGTGTGGAGGAGTGCGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGG 1740
Db 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGG 1740
Qy 1741 GGGCATCTGCTGGACCTCGCCATCTGGATAGTGCCTTCTGCTGTCCTCCAGGTGGCCCC 1800
Db 1741 GGGCATCTGCTGGACCTCGCCATCTGGATAGTGCCTTCTGCTGTCCTCCAGGTGGCCCC 1800
Qy 1801 ATCCCTGTTTATGGGCTCATGTGTCAGCTCAGCCAGTCTGTCTCATCTGATATGTTGTC 1860
Db 1801 ATCCCTGTTTATGGGCTCATGTGTCAGCTCAGCCAGTCTGTCTCATCTGATATGTTGTC 1860
Qy 1861 TGCCGCGAGGCTGGTCTGGTGGCTTACTTCTTACACAGGTAGTATTTGACAGAG 1920
Db 1861 TGCCGCGAGGCTGGTCTGGTGGCTTACTTCTTACACAGGTAGTATTTGACAGAG 1920
Qy 1921 CGACTTGGCCAAATACTCAGCGGTAGAAAACTTCCAGACACATTTGGGGTGGAGGGCTGCT 1980

Db 1921 CGACTTGGCCAAATACTCAGCGGTAGAAAACTTCCAGACACATTTGGGGTGGAGGGCTGCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCTGTAGCCCCATGCGGGTGCCTGGGCTGCGCCGCACT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCTGTAGCCCCATGCGGGTGCCTGGGCTGCGCCGCACT 2040
Qy 2041 TTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGTGTCACCCCTGTGCTGTGCTGCTGCTG 2100
Db 2041 TTCTGTTGCTGCCAAAGTAATGTGGCTCTCTGTGTCACCCCTGTGCTGTGCTGCTGCTG 2100
Qy 2101 GCTGCACAGCTGGGGGCTGGGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db 2101 GCTGCACAGCTGGGGGCTGGGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Qy 2221 ATGCACCTGGAATGCGGGGACTCTGCGAGTGGATTTACCCAGGCTCAGGGTTAAACAGTAGC 2280
Db 2221 ATGCACCTGGAATGCGGGGACTCTGCGAGTGGATTTACCCAGGCTCAGGGTTAAACAGTAGC 2280
Qy 2281 CTCTAGTTGAGACACACCTTAGAGAGGGTTTTTGGGAGCTGGAATAAATCAGTCACTG 2340
Db 2281 CTCTAGTTGAGACACACCTTAGAGAGGGTTTTTGGGAGCTGGAATAAATCAGTCACTG 2340
Qy 2341 GTTTCCTCATCTTAAGCCCTTAACCTGCACTGTTTAAATGAGTCTTTGCAATGGGAG 2400
Db 2341 GTTTCCTCATCTTAAGCCCTTAACCTGCACTGTTTAAATGAGTCTTTGCAATGGGAG 2400
Qy 2401 TTTCTAGGATGAAACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAGA 2460
Db 2401 TTTCTAGGATGAAACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAGA 2460
Qy 2461 GTCTGAGGGGCAACACAAAGAACAGGTCCTCCCTCAGCCCAAGACAGTCTTTTTGCT 2520
Db 2461 GTCTGAGGGGCAACACAAAGAACAGGTCCTCCCTCAGCCCAAGACAGTCTTTTTGCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTGCTCTCTGTTGCCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTGCTCTCTGTTGCCATCA 2580
Qy 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTAAACAAAGTAGAGGGGAATCCAT 2640
Db 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTAAACAAAGTAGAGGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTCTGTGTGTGTCTAATAATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Db 2641 TGCTAGCTTTCTGTGTGTGTCTAATAATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Qy 2701 GGTCCCTGAGATAGCTGCTCATTTGGGCTGATCATTGCCAGAACTTCTCTCTCTGGGT 2760
Db 2701 GGTCCCTGAGATAGCTGCTCATTTGGGCTGATCATTGCCAGAACTTCTCTCTCTGGGT 2760
Qy 2761 CTGCCCCCCCCAAATGCTAAACCCAGGACCTTGGAAATTTCTACTCATCCCCAAATGATAAT 2820
Db 2761 CTGCCCCCCCCAAATGCTAAACCCAGGACCTTGGAAATTTCTACTCATCCCCAAATGATAAT 2820
Qy 2821 TCCAAATGCTTTACCAAGGTTAGGGTGTGTAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTTTACCAAGGTTAGGGTGTGTAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAACGGCTTCCCTTAACCAACCCCTCTTCTTGGCCAGCTGGTTCCCTCTCTCTTCCA 2940
Db 2881 CTCAACGGCTTCCCTTAACCAACCCCTCTTCTTGGCCAGCTGGTTCCCTCTCTCTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTCCCTTACCCCCAACTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060

Db 3001 CCCAACTTCCCTACCCCAACTTTCCCAACCAAGCTCCACAACCCCTGTTGGAGCTACT 3060
Qy GCAGGACAGAAAGTCCGGTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Db GCAGGACAGAAAGTCCGGTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Qy ATATCTGTGCTGGGGAATCTCACACAGAAACTCAGGAGCACCCTCGCTGAGCTAAGG 3180
Db ATATCTGTGCTGGGGAATCTCACACAGAAACTCAGGAGCACCCTCGCTGAGCTAAGG 3180
Qy GAGGCTTATCTCTCAGGGGGGTTTAAGTGCCTTTGCAATAATGTCGCTTATTATT 3240
Db GAGGCTTATCTCTCAGGGGGGTTTAAGTGCCTTTGCAATAATGTCGCTTATTATT 3240
Qy TAGCGGGGTGAATATTTTATATCTGTAAGTGAGCAATCAGAGTATATGTTTATGTTGACA 3300
Db TAGCGGGGTGAATATTTTATATCTGTAAGTGAGCAATCAGAGTATATGTTTATGTTGACA 3300
Qy AAATTAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db AAATTAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy AA 3410
Db AA 3410

RESULT 9
US-09-895-814-110
; Sequence 110, Application US/09895814
; Publication No. US20020193296A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C26
; CURRENT APPLICATION NUMBER: US/09/895,814
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 990
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-895-814-110
Query Match 100.0%; Score 3409.6; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGAAACCAAGCTGCAAGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAAGGATCTGA 60

Db 1 GGGAAACCAAGCTGCAAGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAAGGATCTGA 60
Qy GTGATGAGACGTGTCCCACTGAGGTGCCCAACAGCAGCAGCAGGTGTGAGCATGGGCTGAG 120
Db GTGATGAGACGTGTCCCACTGAGGTGCCCAACAGCAGCAGCAGGTGTGAGCATGGGCTGAG 120
Qy AAGCTGGACCGGCAACAAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180
Db AAGCTGGACCGGCAACAAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180
Qy GCGGCGCAGAGGAGGAGGCGCGCAGCTTCTGGAGCAGAGCCGAGAGCAGAGCAGTTCTG 240
Db GCGGCGCAGAGGAGGAGGCGCGCAGCTTCTGGAGCAGAGCCGAGAGCAGAGCAGTTCTG 240
Qy GAGTGCCTGAAACGGCGCCCTGAGCCCTACCGCCCTGGCCCACTATGGTCCAGAGGCTGTG 300
Db GAGTGCCTGAAACGGCGCCCTGAGCCCTACCGCCCTGGCCCACTATGGTCCAGAGGCTGTG 300
Qy GGTGAGCGCGCTGTGCGGCAACCGAAAGCCAGCTTTGTGTGTCATACCTGTCTAACTT 360
Db GGTGAGCGCGCTGTGCGGCAACCGAAAGCCAGCTTTGTGTGTCATACCTGTCTAACTT 360
Qy TGGCTTGGAGGTGTGTTTGGCGCAGGCATCACCTATGTGCGGCTCTGCTGTGGAAGT 420
Db TGGCTTGGAGGTGTGTTTGGCGCAGGCATCACCTATGTGCGGCTCTGCTGTGGAAGT 420
Qy GGGGTAGAGGAGAAAGTTTCATGACATGGTCTGGGCATTTGGTCAGTGTGGGCTGGT 480
Db GGGGTAGAGGAGAAAGTTTCATGACATGGTCTGGGCATTTGGTCAGTGTGGGCTGGT 480
Qy CTGTGTCCCGCTCTTAGGCTCAGCAGTGAACACCTGGCGTGAGCGCTATGTCGCGCGCG 540
Db CTGTGTCCCGCTCTTAGGCTCAGCAGTGAACACCTGGCGTGAGCGCTATGTCGCGCGCG 540
Qy GCCCTTCATCTGGGCACTGTCTTGGGCATCTGCTGAGCCTCTTCTTCATCCCAAGGC 600
Db GCCCTTCATCTGGGCACTGTCTTGGGCATCTGCTGAGCCTCTTCTTCATCCCAAGGC 600
Qy CGGCTGGCTAGCAGGGCTGTGTGCCCGATCCAGGCGCCCTGGAGCTGGCACTGCTCAT 660
Db CGGCTGGCTAGCAGGGCTGTGTGCCCGATCCAGGCGCCCTGGAGCTGGCACTGCTCAT 660
Qy CCTGGGCGTGGGCTGTGGAATCTGTGTGGCAAGTGTGTCTACTCACTGAGAGGCGCT 720
Db CCTGGGCGTGGGCTGTGGAATCTGTGTGGCAAGTGTGTCTACTCACTGAGAGGCGCT 720
Qy GCTCTGTGACCTTTCGGGACCCGAGCCACTGTGCGCAGGCGCTACTGTCTATGCGCTT 780
Db GCTCTGTGACCTTTCGGGACCCGAGCCACTGTGCGCAGGCGCTACTGTCTATGCGCTT 780
Qy CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCGCATTTGACTGGGACACCAG 840
Db CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCGCATTTGACTGGGACACCAG 840
Qy TGCCCTGGCCCCCTACTTGGGCAACCGAGGAGTGCCTCTTTGGCCTGTCTCACCTCAT 900
Db TGCCCTGGCCCCCTACTTGGGCAACCGAGGAGTGCCTCTTTGGCCTGTCTCACCTCAT 900
Qy CTTCTCACCTGCGTGTAGCAGCCACACTGTGCTGGCTGAGGAGGCGCTGGGCGCCAC 960
Db CTTCTCACCTGCGTGTAGCAGCCACACTGTGCTGGCTGAGGAGGCGCTGGGCGCCAC 960
Qy CGAGCCAGCAGAAAGGCTGTGCGGCGCCCTCTGCTGCGCCCACTGCTGTCCATGCGGGC 1020
Db CGAGCCAGCAGAAAGGCTGTGCGGCGCCCTCTGCTGCGCCCACTGCTGTCCATGCGGGC 1020
Qy CCGCTTGGCTTTCGGAACCTGGGGCGCTGCTTCCCGGCTGCACCACTGTGTGTCGCG 1080
Db CCGCTTGGCTTTCGGAACCTGGGGCGCTGCTTCCCGGCTGCACCACTGTGTGTCGCG 1080
Qy CATGCCCGCACCTGTGCGCGGCTTTCGTCGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Db CATGCCCGCACCTGTGCGCGGCTTTCGTCGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140

1141 GACCTTCACTGTTTACAGGATTTTGGTGGGAGGGGCTGTACAGGGCGTGCACAG 1200
1141 GACCTTCACTGTTTACAGGATTTTGGTGGGAGGGGCTGTACAGGGCGTGCACAG 1200
1201 AGCTGAGCGGGACCGAGGCGCGAGACACTATGATGAAGCGTTGCGATGGGAGCCT 1260
1201 AGCTGAGCGGGACCGAGGCGCGAGACACTATGATGAAGCGTTGCGATGGGAGCCT 1260
1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTCATGAGACCGGCTGGT 1320
1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTCATGAGACCGGCTGGT 1320
1321 GCAGCGATTCGAGCTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGC 1380
1321 GCAGCGATTCGAGCTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGC 1380
1381 CGGTGCCACATGCTGCTGCCACAGTGTGGCGGTGGTGAAGCTTCAGCGCGCTTCACCGG 1440
1381 CGGTGCCACATGCTGCTGCCACAGTGTGGCGGTGGTGAAGCTTCAGCGCGCTTCACCGG 1440
1441 GTTCACCTTCTCAGCGCTCGAGATCCCTGCCCTACACACTGGCCCTCCCTCTACCAACCGGA 1500
1441 GTTCACCTTCTCAGCGCTCGAGATCCCTGCCCTACACACTGGCCCTCCCTCTACCAACCGGA 1500
1501 GAAGCAGGTGTTCTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAG 1560
1501 GAAGCAGGTGTTCTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAG 1560
1561 CTTGATGACAGCTTCTGCCAGGCTTAAGCTGGAGCTCCCTTCCTTAATGACACGT 1620
1561 CTTGATGACAGCTTCTGCCAGGCTTAAGCTGGAGCTCCCTTCCTTAATGACACGT 1620
1621 GGGTGTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGTG 1680
1621 GGGTGTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGTG 1680
1681 TGATGTTCTCGTACGTGTGGTGGGTGAGCCCAACCGAGGCGAGGTGGTTCCGGGCGG 1740
1681 TGATGTTCTCGTACGTGTGGTGGGTGAGCCCAACCGAGGCGAGGTGGTTCCGGGCGG 1740
1741 GGGCATCTGCGTGCACCTCGCATCTGGATAGTGCCTTCTGCTGCTCCAGGTGGCCCC 1800
1741 GGGCATCTGCGTGCACCTCGCATCTGGATAGTGCCTTCTGCTGCTCCAGGTGGCCCC 1800
1801 ATCCCTGTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCTATATGGTGTG 1860
1801 ATCCCTGTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCTATATGGTGTG 1860
1861 TGCGCAGGCTGGGTCTGGTGGCATTTACTTTGCTACACAGGTAGTATTTGACAAGAG 1920
1861 TGCGCAGGCTGGGTCTGGTGGCATTTACTTTGCTACACAGGTAGTATTTGACAAGAG 1920
1921 CGACTTGGCCAAATCTCAGCGTAGAATACTTCAGACATTTGGGGTGGAGGGCTGCCT 1980
1921 CGACTTGGCCAAATCTCAGCGTAGAATACTTCAGACATTTGGGGTGGAGGGCTGCCT 1980
1981 CACTGGGTCCAGTCTCCCGCTCTGTTAGCCCATGCGGCTGCGGGCTGGCGCCAGT 2040
1981 CACTGGGTCCAGTCTCCCGCTCTGTTAGCCCATGCGGCTGCGGGCTGGCGCCAGT 2040
2041 TTCTGTTGCTGCCAAAGTAATGTCGCTCTGCTGCTCCACCTGCTGCTGAGTGGGTA 2100
2041 TTCTGTTGCTGCCAAAGTAATGTCGCTCTGCTGCTCCACCTGCTGCTGAGTGGGTA 2100
2101 GCTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCCAGTCTCTAGGGCTGCTG 2160
2101 GCTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTAGGGCTGCTG 2160
2161 ACTGGAGGCTTCCAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
2161 ACTGGAGGCTTCCAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220

2221 ATGCACCTGGAATCGGGGACTCTCAGGTGGAATTAACAGGCTCAGGTTAAACAGCTAGC 2280
2221 ATGCACCTGGAATCGGGGACTCTCAGGTGGAATTAACAGGCTCAGGTTAAACAGCTAGC 2280
2281 CTCTAGTTGAGACACACCTTAGAGAGGGTTTTGGAGCTGAATAAATCAGTCACTG 2340
2281 CTCTAGTTGAGACACACCTTAGAGAGGGTTTTGGAGCTGAATAAATCAGTCACTG 2340
2341 GTTTCCTCATCTTAAGGCCCTTAACCTGAGCTTCTGTTTAAATGATGCTTCTGCAATGGAG 2400
2341 GTTTCCTCATCTTAAGGCCCTTAACCTGAGCTTCTGTTTAAATGATGCTTCTGCAATGGAG 2400
2401 TTTCTAGGATGAACAACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAAGA 2460
2401 TTTCTAGGATGAACAACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAAGA 2460
2461 GTCTGAGGGGCAACACACAGAACCCAGGTCCCTCAGGCCACAGCACTGTCTTTTGGCT 2520
2461 GTCTGAGGGGCAACACACAGAACCCAGGTCCCTCAGGCCACAGCACTGTCTTTTGGCT 2520
2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTTGGTCTCTCTGTTGCCATCA 2580
2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTTGGTCTCTCTGTTGCCATCA 2580
2581 CAGAGACACAGGCAATTAATAATTTAACTTTATTTAAACAAAGTAGAAGGGGAATCCAT 2640
2581 CAGAGACACAGGCAATTAATAATTTAACTTTATTTAAACAAAGTAGAAGGGGAATCCAT 2640
2641 TGCTAGCTTTTCTGTTGTTGTTCTTAATATTTGGGTAGGTTGGGGATTCGCCAACAATCA 2700
2641 TGCTAGCTTTTCTGTTGTTGTTCTTAATATTTGGGTAGGTTGGGGATTCGCCAACAATCA 2700
2701 GGTCCCTCTGAGATAGCTGCTATTGGCTGATCAATTGCCAGAAATCTTCTCTCTCTGGGT 2760
2701 GGTCCCTCTGAGATAGCTGCTATTGGCTGATCAATTGCCAGAAATCTTCTCTCTCTGGGT 2760
2761 CTGGCCCCCAAAATGCCTAACCCAGGACCTTGGAAATTTCTACTCATCCCAAAATGATAAT 2820
2761 CTGGCCCCCAAAATGCCTAACCCAGGACCTTGGAAATTTCTACTCATCCCAAAATGATAAT 2820
2821 TCCAAAATGCTTTACCAAGTTAGGTTGTTGAAGAGGTAGAGGTGGGGCTTCAGGT 2880
2821 TCCAAAATGCTTTACCAAGTTAGGTTGTTGAAGAGGTAGAGGTGGGGCTTCAGGT 2880
2881 CTCAAGGGCTTCCCTTAACCAACCTCTTCTCTTGGCCAGCTGTTTCCCTCACTTTCCA 2940
2881 CTCAAGGGCTTCCCTTAACCAACCTCTTCTCTTGGCCAGCTGTTTCCCTCACTTTCCA 2940
2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTTCCCTTACC 3000
2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTTCCCTTACC 3000
3001 CCCAACTTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
3001 CCCAACTTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
3061 GCAGGACCAAGACACAAAGTGGGTTTTCCCAAGCTTTTCTCATCTCAGCCCCCAGAGT 3120
3061 GCAGGACCAAGACACAAAGTGGGTTTTCCCAAGCTTTTCTCATCTCAGCCCCCAGAGT 3120
3121 ATATCTGTGCTTGGGAACTCTCAGAGAACTCAGGAGCAACCCCTGCTGAGCTAAGG 3180
3121 ATATCTGTGCTTGGGAACTCTCAGAGAACTCAGGAGCAACCCCTGCTGAGCTAAGG 3180
3181 GAGGTCTTATCTCAGGGGGGTTTTAAGTGGCTTTGCAATAATGTCGTTATTATTATT 3240
3181 GAGGTCTTATCTCAGGGGGGTTTTAAGTGGCTTTGCAATAATGTCGTTATTATTATT 3240
3241 TAGCGGGGTGAATTTTATATGATGAGCAATCAGAGTATATGTTTATGGTGACA 3300
3241 TAGCGGGGTGAATTTTATATGATGAGCAATCAGAGTATATGTTTATGGTGACA 3300
3301 AAATTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360

```

Db      3301 AAATTAAAGGCTTTCTTATATGTTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy      3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db      3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410

RESULT 10
US-10-012-896-110
; Sequence 110, Application US/10012896
; Publication No. US20020181251A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darlick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Baasols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Wantanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-012-896-110

Query Match          100.0%; Score 3409.6; DB 13; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1   GGGAACCAAGCGCTGCACGCGCTGGGTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db      1   GGGAACCAAGCGCTGCACGCGCTGGGTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60

Qy      61  GTGATGAGACGTGTTCCTCATGTAGGTGCCCAACAGCAGCAGGTGTGTAGCATGGGCTGAG 120
Db      61  GTGATGAGACGTGTTCCTCATGTAGGTGCCCAACAGCAGCAGGTGTGTAGCATGGGCTGAG 120

Qy      121  AAGCTGACCGGCACCRAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180
Db      121  AAGCTGACCGGCACCRAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180

Qy      181  GCGGCGCAGCAAGGAGGAGCGCCACGCTTCTTGAGCAGACCGCAGACGAAGCAGTTCTG 240
Db      181  GCGGCGCAGCAAGGAGGAGCGCCACGCTTCTTGAGCAGACCGCAGACGAAGCAGTTCTG 240

Qy      241  GAGTGCCTGAACCGCCCCCTTAGCCCTTAACCGGCTGGCCCCTATGTCAGAGGCTGTG 300
Db      241  GAGTGCCTGAACCGCCCCCTTAGCCCTTAACCGGCTGGCCCCTATGTCAGAGGCTGTG 300

```



```
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427D3
; CURRENT APPLICATION NUMBER: US/10/010,940
; CURRENT FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-010-940-110

Query Match      100.0%; Score 3409.6; DB 14; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAAACGACCTGCAAGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGGCAGAGATCTGA 60
DB 1 GGGAAACGACCTGCAAGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGGCAGAGATCTGA 60

QY 61 GTGATGACAGCTGCCCACTGAGGTGCCCAACAGCAGCAGAGGTGTGAGCATGGCTGAG 120
DB 61 GTGATGACAGCTGTCCCCACTGAGGTGCCCAACAGCAGCAGAGGTGTGAGCATGGCTGAG 120

QY 121 AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCTGGCTGATTCCTAGGCAGTT 180
DB 121 AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCTGGCTGATTCCTAGGCAGTT 180

QY 181 GGGCGCAGCAGGAGGAGGCGCGCAGCTTTTGGAGCAGAGCCGAGACGAAAGAGTTCTG 240
DB 181 GGGCGCAGCAGGAGGAGGCGCGCAGCTTTTGGAGCAGAGCCGAGACGAAAGAGTTCTG 240

QY 241 GAGTGCCTGAAAGGCGCCCTGAGCCCTACCGCCTGCGCCCACTAGTCCAGAGGCTGTG 300
DB 241 GAGTGCCTGAAAGGCGCCCTGAGCCCTACCGCCTGCGCCCACTAGTCCAGAGGCTGTG 300

QY 301 GGTGAGCGCCTGTCTGCGGCACCGGAAAGCCAGCTCTTGTGTGTCACACCTGCTAACCTT 360
DB 301 GGTGAGCGCCTGTCTGCGGCACCGGAAAGCCAGCTCTTGTGTGTCACACCTGCTAACCTT 360

QY 361 TGGCCTGAGAGTGTGTTTGGCGCAGGCAATCACCTATGTGCGCCTCTGCTGCTGGAAGT 420
DB 361 TGGCCTGAGAGTGTGTTTGGCGCAGGCAATCACCTATGTGCGCCTCTGCTGCTGGAAGT 420

QY 421 GGGGTGAGGAGAGTTCATGACCATGGTGTGGGCATTTGGTCAGTGTGGGCTGGT 480
DB 421 GGGGTGAGGAGAGTTCATGACCATGGTGTGGGCATTTGGTCAGTGTGGGCTGGT 480

QY 481 CTGTGTCGCGCTCTCCTAGGCTCAGCAGTGACCACTGGCGTGGACCTATGGCGCGCGCG 540
DB 481 CTGTGTCGCGCTCTCCTAGGCTCAGCAGTGACCACTGGCGTGGACCTATGGCGCGCGCG 540

QY 541 GCCCTTCATCTGGGCACTGTCTTGGGCATCTCTGTGAGCCTCTTTCTCATCCCAAGGCG 600
DB 541 GCCCTTCATCTGGGCACTGTCTTGGGCATCTCTGTGAGCCTCTTTCTCATCCCAAGGCG 600

QY 601 CGGCTGGCTAGCAGGCTGTGTCGCCCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT 660
DB 601 CGGCTGGCTAGCAGGCTGTGTCGCCCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT 660

QY 661 CTTGGCGCTGGGCTGTGCTGGAATCTTGTGGCAGAGTGTGCTTCACTCCACTGGAGCCCT 720
DB 661 CTTGGCGCTGGGCTGTGCTGGAATCTTGTGGCAGAGTGTGCTTCACTCCACTGGAGCCCT 720

QY 721 GCTCTCTGACCTTTTCCGGGACCCGGACCACTGTGCGCAGGCTTACTCTGTCTATGCTT 780
```

```
DB 721 GCTCTCTGACCTTTTCCGGGACCCGGACCACTGTGCGCAGGCTTACTCTGTCTATGCTTT 780
QY 781 CATGATCAGTCTTGGGGCTGCGCTGGGTACTCTCTGCTGCTCCATTGACTTGGACACCAAG 840
DB 781 CATGATCAGTCTTGGGGCTGCGCTGGGTACTCTCTGCTGCTCCATTGACTTGGACACCAAG 840
QY 841 TSCCCTGGCCCCCTTACCTTGGGCACCCAGGAGAGTGCCTCTTTTGGCCTGCTCACCCCTCAT 900
DB 841 TSCCCTGGCCCCCTTACCTTGGGCACCCAGGAGAGTGCCTCTTTTGGCCTGCTCACCCCTCAT 900
QY 901 CTTCTCAGCTGCTAGCAGCACAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
DB 901 CTTCTCAGCTGCTAGCAGCACAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
QY 961 CGAGCAGCAGAGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
DB 961 CGAGCAGCAGAGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
QY 1021 CCGCTTGGCTTTTCCGGAACTTGGGCGGCTCTTTCGCCGCTGCAACCACTGCTGCTGCTGCTGCTGCT 1080
DB 1021 CCGCTTGGCTTTTCCGGAACTTGGGCGGCTCTTTCGCCGCTGCAACCACTGCTGCTGCTGCTGCTGCT 1080
QY 1081 CATGCCCGCAGCCTTGGCGCGCTCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
DB 1081 CATGCCCGCAGCCTTGGCGCGCTCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
QY 1141 GACCTTCAGCTGCTTTTACACGGATTTTGGGGGAGGGCTGTACCAAGGCGTTCGGATGGGCGCT 1200
DB 1141 GACCTTCAGCTGCTTTTACACGGATTTTGGGGGAGGGCTGTACCAAGGCGTTCGGATGGGCGCT 1200
QY 1201 AGCTGAGCGGCGCACCAGGCGCCGAGAGACACTATGATGAAGCGTTCGGATGGGCGCT 1260
DB 1201 AGCTGAGCGGCGCACCAGGCGCCGAGAGACACTATGATGAAGCGTTCGGATGGGCGCT 1260
QY 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
DB 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
QY 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGCTGCTGCTGCTGCTGCT 1380
DB 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGCTGCTGCTGCTGCTGCT 1380
QY 1381 CGGTGCCACATGCTGCTGCCACAGTGTGGCGCTGTGACAGCTTCAGCGCGCTTCCACCGG 1440
DB 1381 CGGTGCCACATGCTGCTGCCACAGTGTGGCGCTGTGACAGCTTCAGCGCGCTTCCACCGG 1440
QY 1441 GTTCACCTTCTCAGCGCTGAGATCTGCGCCTACACACTGCGCTTCTTACCAACCGGGA 1500
DB 1441 GTTCACCTTCTCAGCGCTGAGATCTGCGCCTACACACTGCGCTTCTTACCAACCGGGA 1500
QY 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGAGAGTGTAGCAGTGGAGACAG 1560
DB 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGAGAGTGTAGCAGTGGAGACAG 1560
QY 1561 CCTGATGACAGCTTCTGCGCAGCCCTTAAGCCTGGAGCTCCCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1620
DB 1561 CCTGATGACAGCTTCTGCGCAGCCCTTAAGCCTGGAGCTCCCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1620
QY 1621 GGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTGCTGCGGGGCTCTGCGCTG 1680
DB 1621 GGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTGCTGCGGGGCTCTGCGCTG 1680
QY 1681 TGATGTCTCCCTGATGCTGCTGGGTGAGCCCAACCGAGGCGAGGGTGGTTCGCGGCGG 1740
DB 1681 TGATGTCTCCCTGATGCTGCTGGGTGAGCCCAACCGAGGCGAGGGTGGTTCGCGGCGG 1740
QY 1741 GGGCATCTGCTGAGCCTTGGCCATCTCTGATGATGCTGCTTCTGCTGCTTCTGCTGCTTCTGCTGCTGCTGCT 1800
DB 1741 GGGCATCTGCTGAGCCTTGGCCATCTCTGATGATGCTGCTTCTGCTGCTTCTGCTGCTTCTGCTGCTGCTGCT 1800
QY 1801 ATCCCTGTTATGGCTCCATTGTCAGCTCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1860
```

Db 1801 ATCCCTGTTTATGGGCTCCATGTGTCAGCTCAGCCAGTCTGTCACTGCTATATGGTGTG 1860
 Qy 1861 TGCCGAGGCTGGGTCTGGTGGCGCATTTACTTTGTCTACAGAGTGTATTTGACAAGAG 1920
 Db 1861 TGCCGAGGCTGGGTCTGGTGGCGCATTTACTTTGTCTACAGAGTGTATTTGACAAGAG 1920
 Qy 1921 GCACTTGCCCAATAACTCAGCGTGAAGAACTTCCAGCACTTTGGGGTGGAGGGCTGCTT 1980
 Db 1921 GCACTTGCCCAATAACTCAGCGTGAAGAACTTCCAGCACTTTGGGGTGGAGGGCTGCTT 1980
 Qy 1981 CACTGGGTCCAGCTCCCGCTCCCTGTTAGCCCAATGGGGCTGCCGGCTGCCCGCAGT 2040
 Db 1981 CACTGGGTCCAGCTCCCGCTCCCTGTTAGCCCAATGGGGCTGCCGGCTGCCCGCAGT 2040
 Qy 2041 TTCTGTTGCTGCAAGAAATGTTGCTCTCTGCTGCAACCTGTGCTGCTCAGGTGGCTGA 2100
 Db 2041 TTCTGTTGCTGCAAGAAATGTTGCTCTCTGCTGCAACCTGTGCTGCTCAGGTGGCTGA 2100
 Qy 2101 GCTGCACAGCTGGGGGCTGGGGCGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 Db 2101 GCTGCACAGCTGGGGGCTGGGGCGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 Qy 2161 ACTGAGGCTTCCAGGGGTTTCAGTCTGCACTTATACAGGAGGCCAGAGGGCTCC 2220
 Db 2161 ACTGAGGCTTCCAGGGGTTTCAGTCTGCACTTATACAGGAGGCCAGAGGGCTCC 2220
 Qy 2221 ATGCACTGGAATCGGGGACTCTGAGGTGATTAACCCAGGCTCAGGGTTAACAGCTAGC 2280
 Db 2221 ATGCACTGGAATCGGGGACTCTGAGGTGATTAACCCAGGCTCAGGGTTAACAGCTAGC 2280
 Qy 2281 CTCTAGTTGAGACACCTAGAGAGGGTGTGGGAGCTGAATAACTCAGTCACCTG 2340
 Db 2281 CTCTAGTTGAGACACCTAGAGAGGGTGTGGGAGCTGAATAACTCAGTCACCTG 2340
 Qy 2341 GTTTCCCATCTTAAGCCCTTAACCTGCAGCTCGTTTAAATGTAGCTCTTGCATGGAG 2400
 Db 2341 GTTTCCCATCTTAAGCCCTTAACCTGCAGCTCGTTTAAATGTAGCTCTTGCATGGAG 2400
 Qy 2401 TTTCTAGGATGAACACTCTCCATGGGATTTGAACATATCATCTATTTGTAGGGGAGA 2460
 Db 2401 TTTCTAGGATGAACACTCTCCATGGGATTTGAACATATCATCTATTTGTAGGGGAGA 2460
 Qy 2461 GTCTGAGGGGCAACACACAGAACTCCCTCAGCCACACAGCTGTCTTTTGTCT 2520
 Db 2461 GTCTGAGGGGCAACACACAGAACTCCCTCAGCCACACAGCTGTCTTTTGTCT 2520
 Qy 2521 GATCCACCCCTCTTACCTTTATCAGGATGGGCTGTGGTCTCTCTGTCCTATCA 2580
 Db 2521 GATCCACCCCTCTTACCTTTATCAGGATGGGCTGTGGTCTCTCTGTCCTATCA 2580
 Qy 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTTAACTTATTTTAACTTATTTTAACT 2640
 Db 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTTAACTTATTTTAACTTATTTTAACT 2640
 Qy 2641 TGCTAGCTTTTCTGTGTTGTCTTAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
 Db 2641 TGCTAGCTTTTCTGTGTTGTCTTAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
 Qy 2701 GGTCCCTGAGATAGTGTGATTTGGGCTGATCAATGCGAGAACTTCTCTCTCTGGGT 2760
 Db 2701 GGTCCCTGAGATAGTGTGATTTGGGCTGATCAATGCGAGAACTTCTCTCTCTGGGT 2760
 Qy 2761 CTGGCCCCCAAAATGCTTACCCAGGCTTGAAGAGAGTGTAGAGGGTGGGGCTTCAGGT 2820
 Db 2761 CTGGCCCCCAAAATGCTTACCCAGGCTTGAAGAGAGTGTAGAGGGTGGGGCTTCAGGT 2820
 Qy 2821 TCCAAATGCTGTACCCAGGTTAGGGTGTGAAGAGAGTGTAGAGGGTGGGGCTTCAGGT 2880
 Db 2821 TCCAAATGCTGTACCCAGGTTAGGGTGTGAAGAGAGTGTAGAGGGTGGGGCTTCAGGT 2880
 Qy 2881 CTCAAGGCTTCCCTTAACCCACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA 2940
 Db 2881 CTCAAGGCTTCCCTTAACCCACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA 2940

Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
 Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
 Qy 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAAGCTTCCCAAGCTTCTCAGCCCCCAGAGT 3060
 Db 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAAGCTTCCCAAGCTTCTCAGCCCCCAGAGT 3060
 Qy 3061 GCAGGACGAGACACAAAGTGGGTTTCCCAAGCTTCCCAAGCTTCTCAGCCCCCAGAGT 3120
 Db 3061 GCAGGACGAGACACAAAGTGGGTTTCCCAAGCTTCCCAAGCTTCTCAGCCCCCAGAGT 3120
 Qy 3121 ATATCTGTCTGGGGAACTCTCACAGAACTCAGGAGCACTCCCTGCTGAGCTAAGG 3180
 Db 3121 ATATCTGTCTGGGGAACTCTCACAGAACTCAGGAGCACTCCCTGCTGAGCTAAGG 3180
 Qy 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTCCCTTTTGAATATGCTTATTTATT 3240
 Db 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTCCCTTTTGAATATGCTTATTTATT 3240
 Qy 3241 TAGCGGGGTGATATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGTTGACA 3300
 Db 3241 TAGCGGGGTGATATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGTTGACA 3300
 Qy 3301 AAATTAAGGCTTCTTATATGTTTAAAGTCCCTTTTGAATATGCTTATTTATT 3360
 Db 3301 AAATTAAGGCTTCTTATATGTTTAAAGTCCCTTTTGAATATGCTTATTTATT 3360
 Qy 3361 AAAAAAARAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 3410
 Db 3361 AAAAAAARAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAA 3410

RESULT 12
 US-10-144-678A-110
 ; Sequence 110, Application US/10144678A
 ; Publication No. US20030157089A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A. W.
 ; APPLICANT: Hepler, William T.
 ; APPLICANT: Hural, John
 ; APPLICANT: McNeill, Patricia D.
 ; APPLICANT: Houghton, Raymond L.
 ; APPLICANT: Vinals y de Bassols, Carlota
 ; APPLICANT: Foy, Teresa M.
 ; APPLICANT: Watanabe, Yoshihiro
 ; APPLICANT: Deng, Ta
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
 ; FILE REFERENCE: 210121.427C28
 ; CURRENT APPLICATION NUMBER: US/10/144,678A
 ; CURRENT FILING DATE: 2002-08-12
 ; NUMBER OF SEQ ID NOS: 1033
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 110
 ; LENGTH: 3410
 ; TYPE: DNA

; ORGANISM: Homo sapiens									
US-10-144-678A-110									
Query Match									
Best Local Similarity 100.0%; Score 3409.6; DB 16; Length 3410;									
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
QY	1	GGGAACCAAGCCTGACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCAGGATCTGA	60						
DB	1	GGGAACCAAGCCTGACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCAGGATCTGA	60						
QY	61	GTGATGAGACGTGTCCCACTAGAGTGCCCAACAGCAGAGAGTGTTGAGCATGGGCTGAG	120						
DB	61	GTGATGAGACGTGTCCCACTAGAGTGCCCAACAGCAGAGAGTGTTGAGCATGGGCTGAG	120						
QY	121	AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCTGGCTGATTTCTTAGGACGTT	180						
DB	121	AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCTGGCTGATTTCTTAGGACGTT	180						
QY	181	GGCGCAGCAAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG	240						
DB	181	GGCGCAGCAAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG	240						
QY	241	GAGTGCCCTGAAGCGGCCCTGAGCCCTAGCCCTAGCCCTGGCCCACTATGGTCCAGAGCCTGTG	300						
DB	241	GAGTGCCCTGAAGCGGCCCTGAGCCCTAGCCCTAGCCCTGGCCCACTATGGTCCAGAGCCTGTG	300						
QY	301	GGTGAGCGCGCTGTGCGGCACCGGAAAGCCAGCTTTGCTGGTCAACCTGCTAAACCTT	360						
DB	301	GGTGAGCGCGCTGTGCGGCACCGGAAAGCCAGCTTTGCTGGTCAACCTGCTAAACCTT	360						
QY	361	TGGCCTGAGAGTGTTGTTGGCGCAGGACATCACCTATGTGCGCCTCTGCTGCTGGAAGT	420						
DB	361	TGGCCTGAGAGTGTTGTTGGCGCAGGACATCACCTATGTGCGCCTCTGCTGCTGGAAGT	420						
QY	421	GGGGTAGAGGAAGTTATGACCATGAGTGTGCTGGGCATTTGGTCAAGTGTGGGCTGGT	480						
DB	421	GGGGTAGAGGAAGTTATGACCATGAGTGTGCTGGGCATTTGGTCAAGTGTGGGCTGGT	480						
QY	481	CTGTGTCGGCTCTTAGGCTAGCAGTGAACACTGGGCTGAGCCTATGCTGAGCGCGCG	540						
DB	481	CTGTGTCGGCTCTTAGGCTAGCAGTGAACACTGGGCTGAGCCTATGCTGAGCGCGCG	540						
QY	541	GCCCTTCACTGGGCACTGTCTTGGGCATCCTGCTGAGCCTCTTTCTATCCCAAGGCG	600						
DB	541	GCCCTTCACTGGGCACTGTCTTGGGCATCCTGCTGAGCCTCTTTCTATCCCAAGGCG	600						
QY	601	CGGCTGGCTAGCAGGGCTGTGTGCGCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT	660						
DB	601	CGGCTGGCTAGCAGGGCTGTGTGCGCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT	660						
QY	661	CCTGGGCTGGGCTGTGGACTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGCCCT	720						
DB	661	CCTGGGCTGGGCTGTGGACTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGCCCT	720						
QY	721	GCTCTCTGACCTTTTCGGGACCCGGACCACTGTGCGCAGGCTACTCTGTCTATGGCTT	780						
DB	721	GCTCTCTGACCTTTTCGGGACCCGGACCACTGTGCGCAGGCTACTCTGTCTATGGCTT	780						
QY	781	CATGATCAGTCTTGGGGCTGTGGGCTACCTCTGCTGCGCATTTGACTGGGACACAG	840						
DB	781	CATGATCAGTCTTGGGGCTGTGGGCTACCTCTGCTGCGCATTTGACTGGGACACAG	840						
QY	841	TGCCCTGGCCCTTACCTGGGACCCAGAGGAGTGCTTTTGGCCTGTCTCACCTCAT	900						
DB	841	TGCCCTGGCCCTTACCTGGGACCCAGAGGAGTGCTTTTGGCCTGTCTCACCTCAT	900						
QY	901	CTTCTCACTCTGCTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGCGCTGGGCCCCAC	960						
DB	901	CTTCTCACTCTGCTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGCGCTGGGCCCCAC	960						
QY	961	CGAGCCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCGCCCCCACTGCTGTCCATGCGGGC	1020						

DB	961	CGAGCCAGCAGAAAGGGCTGTGCGGCCCTCTCTTGTGCCCCCACTGCTGTCCATGCGGGC	1020
QY	1021	CCGCTTGGCTTTCCGGAACCTGGGCGCCCTCTCTTCCCCCGGTGACACCACTGCTGTGTCGG	1080
DB	1021	CCGCTTGGCTTTCCGGAACCTGGGCGCCCTCTCTTCCCCCGGTGACACCACTGCTGTGTCGG	1080
QY	1081	CATGCCCGCACCTGCGCCGGCTCTTCTGGCTGAGCTGTGCAGCTGGATGGCACTCAT	1140
DB	1081	CATGCCCGCACCTGCGCCGGCTCTTCTGGCTGAGCTGTGCAGCTGGATGGCACTCAT	1140
QY	1141	GACCTTCAAGCTGTTTTACACGGATTTCTGGGCGAGGGCTGTACCAAGGGCTGCCAG	1200
DB	1141	GACCTTCAAGCTGTTTTACACGGATTTCTGGGCGAGGGCTGTACCAAGGGCTGCCAG	1200
QY	1201	AGCTGAGCCGGCACCGAGGCGCGAGACACTATGATGAAGCGCTTCGGATGGGAGCT	1260
DB	1201	AGCTGAGCCGGCACCGAGGCGCGAGACACTATGATGAAGCGCTTCGGATGGGAGCT	1260
QY	1261	GGGCTGTCTGTCAGTGCAGCTCTCCCTGGTCTTCTCTCTGCTCATGGAACCGCTGGT	1320
DB	1261	GGGCTGTCTGTCAGTGCAGCTCTCCCTGGTCTTCTCTCTCTGCTCATGGAACCGCTGGT	1320
QY	1321	GCAGGATTCGGCACTCGAGCAGCTATTTGGCCAGTGTGSCAGCTTTCCCTGTGGCTGC	1380
DB	1321	GCAGGATTCGGCACTCGAGCAGCTATTTGGCCAGTGTGSCAGCTTTCCCTGTGGCTGC	1380
QY	1381	CGGTGCCACATGCTGTGCCACAGTGTGGCGGTGTGACAGCTTCAGCGCGCTCACCGG	1440
DB	1381	CGGTGCCACATGCTGTGCCACAGTGTGGCGGTGTGACAGCTTCAGCGCGCTCACCGG	1440
QY	1441	GTTCACTTCTCAGCCCTGTCAGATCTCTGCCCTACACACTGCGCTCTCTACCAACCGGA	1500
DB	1441	GTTCACTTCTCAGCCCTGTCAGATCTCTGCCCTACACACTGCGCTCTCTACCAACCGGA	1500
QY	1501	GAAGCAGGTGTTCTGCGCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGAAGACAG	1560
DB	1501	GAAGCAGGTGTTCTGCGCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGAAGACAG	1560
QY	1561	CCTGATGACCAAGCTTCTGCGCAGGCTTAAGCTGGAGCTCCCTTCCCTAATGACACGT	1620
DB	1561	CCTGATGACCAAGCTTCTGCGCAGGCTTAAGCTGGAGCTCCCTTCCCTAATGACACGT	1620
QY	1621	GGGTGCTGGAGGACAGTGGCTGTCCCACTCCACCGCGCTCTGCGGGGCTCTGCGCTG	1680
DB	1621	GGGTGCTGGAGGACAGTGGCTGTCCCACTCCACCGCGCTCTGCGGGGCTCTGCGCTG	1680
QY	1681	TGATGTCTCCGTAGCTGTGGTGGGTGAGCCCAACCGAGGCGAGGGTGGTTCCGGGCGG	1740
DB	1681	TGATGTCTCCGTAGCTGTGGTGGGTGAGCCCAACCGAGGCGAGGGTGGTTCCGGGCGG	1740
QY	1741	GGGCATCTGCTGACCTCGCCATCTCGGATAGTGTGCTTCTGCTGCCAGGTGGGCCCT	1800
DB	1741	GGGCATCTGCTGACCTCGCCATCTCGGATAGTGTGCTTCTGCTGCCAGGTGGGCCCT	1800
QY	1801	ATCCCTGTATAGGGCTCCATTTGTCAGCTCAGCAAGTGTCTCATCTGCTATATGGTGTG	1860
DB	1801	ATCCCTGTATAGGGCTCCATTTGTCAGCTCAGCAAGTGTCTCATCTGCTATATGGTGTG	1860
QY	1861	TGCCGCGAGGCTGGTCTGGTGGCCATTTACTTTGTCTACACAGGTAGTATTTGACAAG	1920
DB	1861	TGCCGCGAGGCTGGTCTGGTGGCCATTTACTTTGTCTACACAGGTAGTATTTGACAAG	1920
QY	1921	CGACTTGGCCAAATACCTCAGCGTAGAAAACTTCCAGCACATTTGGGGTGGAGGGCTGCT	1980
DB	1921	CGACTTGGCCAAATACCTCAGCGTAGAAAACTTCCAGCACATTTGGGGTGGAGGGCTGCT	1980
QY	1981	CATGGGTGCCAGCTCCCGCTCTCTGTAGCCCCAATGGGGTGTGCGGGCTGGCGGCCAGT	2040
DB	1981	CATGGGTGCCAGCTCCCGCTCTCTGTGTAGCCCCAATGGGGTGTGCGGGCTGGCGGCCAGT	2040
QY	2041	TTCTGTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCCCCACTGCTGTGAGGTGCGTA	2100
DB	2041	TTCTGTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCCCCACTGCTGTGAGGTGCGTA	2100

QY 481 CTGTGTCCGCTCTTAGGCTCAGCCAGTAGACCACTAGCGGTGAGCGCTATGGCGCGCGCG 540
DB |||||
QY 481 CTGTGTCCGCTCTTAGGCTCAGCCAGTAGACCACTAGCGGTGAGCGCTATGGCGCGCGCG 540
DB |||||
QY 541 GCGCTTCATCTGGGCACTGTCTTGGGCACTCTGTGTGAGCCCTCTTCTCATCCGAAGGCG 600
DB |||||
QY 541 GCGCTTCATCTGGGCACTGTCTTGGGCACTCTGTGTGAGCCCTCTTCTCATCCGAAGGCG 600
DB |||||
QY 601 GCGGTGGCTAGCAGGCGCTGTGTGCCGATCCAGGCCCTCGAGCTGGCACTGCTCAT 660
DB |||||
QY 601 GCGGTGGCTAGCAGGCGCTGTGTGCCGATCCAGGCCCTCGAGCTGGCACTGCTCAT 660
DB |||||
QY 661 CTTGGGCGTGGGCTGTCTGGCACTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGCCCT 720
DB |||||
QY 661 CTTGGGCGTGGGCTGTCTGGCACTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGCCCT 720
DB |||||
QY 721 GCTCTCTGACCTCTTCCGGGACCCGAGCACTGTGTGCCAGGCGCTACTGTCTATGCCCT 780
DB |||||
QY 721 GCTCTCTGACCTCTTCCGGGACCCGAGCACTGTGTGCCAGGCGCTACTGTCTATGCCCT 780
DB |||||
QY 781 CATGATCAGCTCTTGGGGCTGTCTGGGCTACCTCTGTGGCCAGGTGTGCTTCACTGGGACACCAG 840
DB |||||
QY 781 CATGATCAGCTCTTGGGGCTGTCTGGGCTACCTCTGTGGCCAGGTGTGCTTCACTGGGACACCAG 840
DB |||||
QY 841 TGCCTTGGCCCTTACCTGGGACCCAGGAGGTGCTCTTGTGGCTGCTCACCCTCAT 900
DB |||||
QY 841 TGCCTTGGCCCTTACCTGGGACCCAGGAGGTGCTCTTGTGGCTGCTCACCCTCAT 900
DB |||||
QY 901 CTTCTCAGCTGTAGCAGCCACACTGTGTGGCTGAGGAGGAGCGCTGGGGCCAC 960
DB |||||
QY 901 CTTCTCAGCTGTAGCAGCCACACTGTGTGGCTGAGGAGGAGCGCTGGGGCCAC 960
DB |||||
QY 961 CGAGCCAGCAGAGGCTGTGGGCGGCTCTGTGGCCCACTGTGTGCATGCCGCG 1020
DB |||||
QY 961 CGAGCCAGCAGAGGCTGTGGGCGGCTCTGTGGCCCACTGTGTGCATGCCGCG 1020
DB |||||
QY 1021 CCGCTTGGCTTCCGAACTGGGCGGCTGTCTCCCGGCTGCAACAGCTGTGTGCGG 1080
DB |||||
QY 1021 CCGCTTGGCTTCCGAACTGGGCGGCTGTCTCCCGGCTGCAACAGCTGTGTGCGG 1080
DB |||||
QY 1081 CATGCCCGCACCTGTGGCGGCTCTGTGTGCTGAGCTGTGCACTGTGATGGCACTCAT 1140
DB |||||
QY 1081 CATGCCCGCACCTGTGGCGGCTCTGTGTGCTGAGCTGTGCACTGTGATGGCACTCAT 1140
DB |||||
QY 1141 GACCTTCAGCTGTTTACAGCGATTTGTGGGCGAGGCGGTGTACAGGGGCTGCCAG 1200
DB |||||
QY 1141 GACCTTCAGCTGTTTACAGCGATTTGTGGGCGAGGCGGTGTACAGGGGCTGCCAG 1200
DB |||||
QY 1201 AGCTAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTTCGGATGGGCGCT 1260
DB |||||
QY 1201 AGCTAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTTCGGATGGGCGCT 1260
DB |||||
QY 1261 GGGGCTGTCTGCACTGGGCGCATCTCCCTGTCTCTCTGTGTGATGGACCGGCTGGT 1320
DB |||||
QY 1261 GGGGCTGTCTGCACTGGGCGCATCTCCCTGTCTCTCTGTGTGATGGACCGGCTGGT 1320
DB |||||
QY 1321 GCAGCGATTCGCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGC 1380
DB |||||
QY 1321 GCAGCGATTCGCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGC 1380
DB |||||
QY 1381 CCGTGCCCATGCTGTCTCCAGCTGTGGCGGTGAGCAGCTTCAGCGCGGCTCACCGG 1440
DB |||||
QY 1381 CCGTGCCCATGCTGTCTCCAGCTGTGGCGGTGAGCAGCTTCAGCGCGGCTCACCGG 1440
DB |||||
QY 1441 GTTCACTTCTCAGCGCTGCAGATCTGCGCTTACACACTGGGCTCCCTTACCACCGGGA 1500
DB |||||
QY 1441 GTTCACTTCTCAGCGCTGCAGATCTGCGCTTACACACTGGGCTCCCTTACCACCGGGA 1500
DB |||||
QY 1501 GAAGCAGGTGTCTGCGCCAAATACCGAGGGGACACTGAGGTGTGTAGCAGTGGAGCAG 1560
DB |||||
QY 1501 GAAGCAGGTGTCTGCGCCAAATACCGAGGGGACACTGAGGTGTGTAGCAGTGGAGCAG 1560
DB |||||

QY 1561 CTTGATGACCAAGCTTCTGCGAGGCCCTAAGCGCTGAGCTCCCTTCCCTTAATGGACAGT 1620
DB |||||
QY 1561 CTTGATGACCAAGCTTCTGCGAGGCCCTAAGCGCTGAGCTCCCTTCCCTTAATGGACAGT 1620
DB |||||
QY 1621 GGGTGTCTGGAGGCACTGGGCTGCTCCCACTCCAGCGGCTCTCGGGGGCTCTGCGCTG 1680
DB |||||
QY 1621 GGGTGTCTGGAGGCACTGGGCTGCTCCCACTCCAGCGGCTCTCGGGGGCTCTGCGCTG 1680
DB |||||
QY 1681 TGATGTCTCCGTCAGCTGTGGGTGAGCGGAGCCAGCGAGGCTGGTTCGCGGCG 1740
DB |||||
QY 1681 TGATGTCTCCGTCAGCTGTGGGTGAGCGGAGCCAGCGAGGCTGGTTCGCGGCG 1740
DB |||||
QY 1741 GGGCACTGTGCTGCACTCGCCACTCTCTGGATAGTGCCTTCTGTCTCTCCAGGTGGCCCC 1800
DB |||||
QY 1741 GGGCACTGTGCTGCACTCGCCACTCTCTGGATAGTGCCTTCTGTCTCTCCAGGTGGCCCC 1800
DB |||||
QY 1801 ATCCCTGTTTATGGGCTCATTGTCCAGCTCAGCCAGCTGTGCTACTGCTATATGGTGT 1860
DB |||||
QY 1801 ATCCCTGTTTATGGGCTCATTGTCCAGCTCAGCCAGCTGTGCTACTGCTATATGGTGT 1860
DB |||||
QY 1861 TGCAGCGGCTGGGTCTGGTGCCTATTTACTTGTCTACACAGGTAGTATTTGACAAG 1920
DB |||||
QY 1861 TGCAGCGGCTGGGTCTGGTGCCTATTTACTTGTCTACACAGGTAGTATTTGACAAG 1920
DB |||||
QY 1921 CGACTTGGCCAAATACTCAGCGTAGAAACTTTCAGCACTTGGGGTGGAGGCTGCT 1980
DB |||||
QY 1921 CGACTTGGCCAAATACTCAGCGTAGAAACTTTCAGCACTTGGGGTGGAGGCTGCT 1980
DB |||||
QY 1981 CACTGGGTCCAGCTCCCGCTCTGTTAGGCCCATGGGGCTGCGGGCTGGCGGCTGCT 2040
DB |||||
QY 1981 CACTGGGTCCAGCTCCCGCTCTGTTAGGCCCATGGGGCTGCGGGCTGGCGGCTGCT 2040
DB |||||
QY 2041 TTCTGTGCTGCGCAAGTAATGTGCTCTCTGCTGCCACCTGCTGCTGAGGTGCGTA 2100
DB |||||
QY 2041 TTCTGTGCTGCGCAAGTAATGTGCTCTCTGCTGCCACCTGCTGCTGAGGTGCGTA 2100
DB |||||
QY 2101 GCTGCACAGCTGGGGGCTGGGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
DB |||||
QY 2101 GCTGCACAGCTGGGGGCTGGGGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
DB |||||
QY 2161 ACTGGAGGCTTCCAGGGGGTTCAGTCTGGACTTATACAGGGAGGCGCAGAGGCTCC 2220
DB |||||
QY 2161 ACTGGAGGCTTCCAGGGGGTTCAGTCTGGACTTATACAGGGAGGCGCAGAGGCTCC 2220
DB |||||
QY 2221 ATGCACTGGAATGCGGGGACTCTGAGGTGATTAACAGGCTCAGGCTTAACAGCTAGC 2280
DB |||||
QY 2221 ATGCACTGGAATGCGGGGACTCTGAGGTGATTAACAGGCTCAGGCTTAACAGCTAGC 2280
DB |||||
QY 2281 CTCTAGTTGAGACACACTAGAGAAAGGTTTTGGGAGCTGAATAAATCACTCAGTCACTG 2340
DB |||||
QY 2281 CTCTAGTTGAGACACACTAGAGAAAGGTTTTGGGAGCTGAATAAATCACTCAGTCACTG 2340
DB |||||
QY 2341 GTTTCCTCATCTTAAGCGGCTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2400
DB |||||
QY 2341 GTTTCCTCATCTTAAGCGGCTTAACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2400
DB |||||
QY 2401 TTTCTAGGATGAACACACTCTCTTCCATGGGATTTGAACATATGACTTATTTGAGGGGA 2460
DB |||||
QY 2401 TTTCTAGGATGAACACACTCTCTTCCATGGGATTTGAACATATGACTTATTTGAGGGGA 2460
DB |||||
QY 2461 GTCTGAGGGGCAACACAAAGAACAGGTCCTCAGGCCACAGCACTGTCTTTTGTGT 2520
DB |||||
QY 2461 GTCTGAGGGGCAACACAAAGAACAGGTCCTCAGGCCACAGCACTGTCTTTTGTGT 2520
DB |||||
QY 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2580
DB |||||
QY 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2580
DB |||||
QY 2581 CAGAGACAGGCTTTTAAATATTTAACTTATTTTAACTTATTTTAACTTATTTTAACTTATTT 2640
DB |||||
QY 2581 CAGAGACAGGCTTTTAAATATTTAACTTATTTTAACTTATTTTAACTTATTTTAACTTATTT 2640
DB |||||
QY 2641 TGCTAGCTTTTCTGTGTGTGTCTTAATATTTGGGTAGGGGTAGGGGTAGGGGTAGGGGTAGGG 2700
DB |||||

[illegible]

```

RESULT 14
US-10-453-919-100
; Sequence 100, Application US/10453919
; Publication No. US20040033230A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C7
; CURRENT APPLICATION NUMBER: US/10/453,919
; CURRENT FILING DATE: 2003-06-03
; NUMBER OF SEQ ID NOS: 121
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien

```

US-10-453-919-100

Query Match	100.0%;	Score 3409.6;	DB 18;	Length 3410;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 3410;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy 1	GGGAACAGGCTGCACGCGCTGCTCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA	60		
Db 1	GGGAACAGGCTGCACGCGCTGCTCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA	60		
Qy 61	GTGATGAGCGTGTCCCACTGAGGTGCCCCACAGCAGCAGAGGTGTTGAGCATGGGCTGAG	120		
Db 61	GTGATGAGCGTGTCCCACTGAGGTGCCCCACAGCAGCAGAGGTGTTGAGCATGGGCTGAG	120		
Qy 121	AAGCTGGACCGGCACAAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT	180		
Db 121	AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGCGCTGGCTGATTCTTAGGCAGTT	180		
Qy 181	GGCGGACGAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG	240		
Db 181	GGCGGACGAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG	240		
Qy 241	GAGTGCTGAACGGCCCCCTGAGCGCTACCGGCTGGCCACATATGTCAGAGGCGTGTG	300		
Db 241	GAGTGCTGAACGGCCCCCTGAGCGCTACCGGCTGGCCACATATGTCAGAGGCGTGTG	300		
Qy 301	GGTGAGCCGCTGCTGCGGCACCGGAAAGCCAGCTCTTGTGCTCAACCTGTAACTT	360		
Db 301	GGTGAAGCGCTGCTGGGACACCGGAAAGCCAGCTCTTGTGCTCAACCTGTAACTT	360		
Qy 361	TGCGCTGGAGGTGTTTGGCCGACGACATCACTATGTGCGGCTGTGCTGTGGAAGT	420		
Db 361	TGCGCTGGAGGTGTTTGGCCGACGACATCACTATGTGCGGCTGTGCTGTGGAAGT	420		
Qy 421	GGGGGTAGAGGAACTTATGACCATGGTGCTGGCATTTGGTCCAGTGCTGGGCGTGT	480		
Db 421	GGGGGTAGAGGAACTTATGACCATGGTGCTGGCATTTGGTCCAGTGCTGGGCGTGT	480		
Qy 481	CTGTGTCGCGCTCCTTAGGCTCAGCAGTACCACTGGCGTGAGCGCTATGGCGCGCGCG	540		
Db 481	CTGTGTCGCGCTCCTTAGGCTCAGCAGTACCACTGGCGTGAGCGCTATGGCGCGCGCG	540		
Qy 541	GCCTTTTCATCTGGGCACTGTCTTTGGGCATTCCTGTGAGCGCTCTTTCTCATCCCAAGGC	600		
Db 541	GCCTTTTCATCTGGGCACTGTCTTTGGGCATTCCTGTGAGCGCTCTTTCTCATCCCAAGGC	600		
Qy 601	CGGCTGGCTAGCAGGCGTGTGTCGCGGATCCAGGCGGCTGGAGTGGCACTGCTCAT	660		
Db 601	CGGCTGGCTAGCAGGCGTGTGTCGCGGATCCAGGCGGCTGGAGTGGCACTGCTCAT	660		
Qy 661	CTTGGCGTGGGCGTGTGAGCTTCTGTGGCCAGGTGTGCTTCACTCACTGGAGGCGCT	720		
Db 661	CTTGGCGTGGGCGTGTGAGCTTCTGTGGCCAGGTGTGCTTCACTCACTGGAGGCGCT	720		
Qy 721	GCTCTCTGACCTCTTCGGGACCCGACCACTGTGCGCAGGCGCTACTCTGTATGCGCTT	780		
Db 721	GCTCTCTGACCTCTTCGGGACCCGACCACTGTGCGCAGGCGCTACTCTGTATGCGCTT	780		
Qy 781	CATGATCAGTCTTGGGGGCTGCTGGGCTACCTCTGCGCTGCCATTGACTGGGACACAG	840		
Db 781	CATGATCAGTCTTGGGGGCTGCTGGGCTACCTCTGCGCTGCCATTGACTGGGACACAG	840		
Qy 841	TGCGCTGGCGGCTACTGGGACCCAGAGGAGTGCCTCTTTGGCGTGTCACTTCTCAT	900		
Db 841	TGCGCTGGCGGCTACTGGGACCCAGAGGAGTGCCTCTTTGGCGTGTCACTTCTCAT	900		
Qy 901	CTTCTCCTCAGCTGTAGCAGCCACTGTCTGGTGGCTGAGGAGGACGCTGGGCGCCAC	960		
Db 901	CTTCTCCTCAGCTGTAGCAGCCACTGTCTGGTGGCTGAGGAGGACGCTGGGCGCCAC	960		
Qy 961	CGAGCAGCAGAAAGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGTGTCCATGCGGGC	1020		
Db 961	CGAGCAGCAGAAAGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGTGTCCATGCGGGC	1020		

Db 3181 GAGGCTTTATCTCTCAGGGGGGTTTAAAGTCCGTTTGCAATAATGTCGTCTTATTTATT 3240
Qy 3241 TAGCGGGGTGAATATTTTATCTAGTGAAGCAATCAGAGTATATGTTTATGTTGACA 3300
Db 3241 TAGCGGGGTGAATATTTTATCTAGTGAAGCAATCAGAGTATATGTTTATGTTGACA 3300
Qy 3301 AAATTAAGGCTTCTTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTAAGGCTTCTTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AA 3410
Db 3361 AA 3410

RESULT 15

US-10-688-838-110
; Sequence 110, Application US/10688838
; Publication No. US20040141989A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427D4
; CURRENT APPLICATION NUMBER: US/10/688,838
; CURRENT FILING DATE: 2003-10-17
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-688-838-110

Query Match 100.0%; Score 3409.6; DB 19; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACGAGCTGACGGCTGGCTCCGGGTGACAGCGCGCGCTGGCCAGGATCTGA 60
Db 1 GGGAAACGAGCTGACGGCTGGCTCCGGGTGACAGCGCGCGCTGGCCAGGATCTGA 60
Qy 61 GTGATGAGAGCTGTCCCACTGAGTGCCCAACAGCAGCAGGTGTGAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTGAGTGCCCAACAGCAGCAGGTGTGAGCATGGCTGAG 120
Qy 121 AAGCTGGACCGGACCCAAAGGGCTGGCAGAAATGGCGCTGGCTGATTCCTAGGCAATT 180
Db 121 AAGCTGGACCGGACCCAAAGGGCTGGCAGAAATGGCGCTGGCTGATTCCTAGGCAATT 180
Qy 181 GCGGCGAGCAAGGAGGAGCGCGAGCTTCTGAGCAGAGCCGAGAGCAAGAGTCTGTG 240
Db 181 GCGGCGAGCAAGGAGGAGCGCGAGCTTCTGAGCAGAGCCGAGAGCAAGAGTCTGTG 240
Qy 241 GAGTGCTTGAACGGCCCCCTGAGCCCTACCGCTGAGCCCACTATGTTCCAGAGGCTGTG 300
Db 241 GAGTGCTTGAACGGCCCCCTGAGCCCTACCGCTGAGCCCACTATGTTCCAGAGGCTGTG 300
Qy 301 GGTGAGCCGCTGTGCGGCAACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAACTTT 360
Db 301 GGTGAGCCGCTGTGCGGCAACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAACTTT 360
Qy 361 TGGCTGAGAGTGTGTTTGGCGCAGGATCACTATGTTGCGGCTCTGTGCTGGAAGT 420
Db 361 TGGCTGAGAGTGTGTTTGGCGCAGGATCACTATGTTGCGGCTCTGTGCTGGAAGT 420
Qy 421 GGGGTAGAGAGAGTTCATGACCATGCTGGCAATGCTGAGTGTGCTGCTGCTGCTGCT 480
Db 421 GGGGTAGAGAGAGTTCATGACCATGCTGGCAATGCTGAGTGTGCTGCTGCTGCTGCT 480
Qy 481 CTGTGTCCTGCTCCTAGGCTCAGCCAGTGACCACTGGCGTGGAGCTATGGCCCGCGCG 540

Db 481 CTGTGTCCTGCTCCTAGGCTCAGCCAGTGACCACTGGCGTGGAGCTATGGCCCGCGCG 540
Qy 541 GCCCTTCATCTGGGCACTGTCTTGGGCACTCTGCTGAGGCTCTTCTCATCCCAAGGCG 600
Db 541 GCCCTTCATCTGGGCACTGTCTTGGGCACTCTGCTGAGGCTCTTCTCATCCCAAGGCG 600
Qy 601 CGGTGGCTAGCAGGGCTGTGTGCCCGGATCCAGGCCCTCGAGCTGGGACCTGCTCAT 660
Db 601 CGGTGGCTAGCAGGGCTGTGTGCCCGGATCCAGGCCCTCGAGCTGGGACCTGCTCAT 660
Qy 661 CTGGGGCTGGGCTGTGTGACTTCTGTGGCAGGTGTGCTTCACTGACCTGGAGGCGCT 720
Db 661 CTGGGGCTGGGCTGTGTGACTTCTGTGGCAGGTGTGCTTCACTGACCTGGAGGCGCT 720
Qy 721 GCTCTGTGACTCTTCCGGGACCCGGACCACTGTGCGCAGGCTTCTGTCTATGCTT 780
Db 721 GCTCTGTGACTCTTCCGGGACCCGGACCACTGTGCGCAGGCTTCTGTCTATGCTT 780
Qy 781 CATGATCAGTCTTGGGGCTGTGGCTTACCTCTGCTGCCATTGACCTGGGACACAG 840
Db 781 CATGATCAGTCTTGGGGCTGTGGCTTACCTCTGCTGCCATTGACCTGGGACACAG 840
Qy 841 TGGCTGGCCCCCTTACCTGGGCAACCCAGAGGAGTGTCTTGGGCTGTCTACCTCAT 900
Db 841 TGGCTGGCCCCCTTACCTGGGCAACCCAGAGGAGTGTCTTGGGCTGTCTACCTCAT 900
Qy 901 CTTCTCACCTGCTGAGCAGCAGCAGTGTGTGGCTGAGGAGCAGCGCTGGGCCCCAC 960
Db 901 CTTCTCACCTGCTGAGCAGCAGCAGTGTGTGGCTGAGGAGCAGCGCTGGGCCCCAC 960
Qy 961 CGAGCCAGCAAGAGGCTGTGCGGCCCTCTTGTGCGCCCCACCTGTGCTCATGCCGGC 1020
Db 961 CGAGCCAGCAAGAGGCTGTGCGGCCCTCTTGTGCGCCCCACCTGTGCTCATGCCGGC 1020
Qy 1021 CGGCTTGGCTTTCGGAACTGTGGGCGCTGTCTTCCCGGCTGACCAAGCTGTGCTGCG 1080
Db 1021 CGGCTTGGCTTTCGGAACTGTGGGCGCTGTCTTCCCGGCTGACCAAGCTGTGCTGCG 1080
Qy 1081 CATGCCCCGACCTGCGCGGCTCTTCTGCTGGCTGAGCTGTGAGCTGGATGGGACCTCAT 1140
Db 1081 CATGCCCCGACCTGCGCGGCTCTTCTGCTGGCTGAGCTGTGAGCTGGATGGGACCTCAT 1140
Qy 1141 GACCTTCACCTGCTTTTACACGGATTTCTGTTGGGCGAGGCTGTACCAAGGCTGTGCGCAG 1200
Db 1141 GACCTTCACCTGCTTTTACACGGATTTCTGTTGGGCGAGGCTGTACCAAGGCTGTGCGCAG 1200
Qy 1201 AGCTGAGCCGGGCAACCGAGGCCCGGAGACACTATGATGAAGGCTTCGGATGGGACGCT 1260
Db 1201 AGCTGAGCCGGGCAACCGAGGCCCGGAGACACTATGATGAAGGCTTCGGATGGGACGCT 1260
Qy 1261 GGGGCTGTTCTGCGAGTGGCGCATCTCCCTGCTTCTCTCTGCTGATGGACCGGCTGGT 1320
Db 1261 GGGGCTGTTCTGCGAGTGGCGCATCTCCCTGCTTCTCTCTCTGCTGATGGACCGGCTGGT 1320
Qy 1321 GCAGCGATTTCGGCACTGCGAGCAGTCTATTTGGGCGAGTGTGGCAGCTTTTCCCTGTGGCTGC 1380
Db 1321 GCAGCGATTTCGGCACTGCGAGCAGTCTATTTGGGCGAGTGTGGCAGCTTTTCCCTGTGGCTGC 1380
Qy 1381 CGGTGCCACATGCTGTCCCAAGTGTGGCCGTGAGCAAGCTTCAGCGGCTTCACCGG 1440
Db 1381 CGGTGCCACATGCTGTCCCAAGTGTGGCCGTGAGCAAGCTTCAGCGGCTTCACCGG 1440
Qy 1441 GTTCACCTTCTCAGCCCTGAGATCTGCGCTACACACTGGCCCTCCCTTACCAACCGGGA 1500
Db 1441 GTTCACCTTCTCAGCCCTGAGATCTGCGCTACACACTGGCCCTCCCTTACCAACCGGGA 1500
Qy 1501 GAAGCAGGTGCTTCTGCGCCAAATACCGAGGGGACACTGGAGGCTGTAGCAGTGAAGACAG 1560
Db 1501 GAAGCAGGTGCTTCTGCGCCAAATACCGAGGGGACACTGGAGGCTGTAGCAGTGAAGACAG 1560
Qy 1561 CCTGTGACACAGCTTCTGCGAGGCCCTAAGCCTGGAGCTTCCCTTCCCTAATGACACGT 1620
Db 1561 CCTGTGACACAGCTTCTGCGAGGCCCTAAGCCTGGAGCTTCCCTTCCCTAATGACACGT 1620

Db 1561 CCGATGACAGCTTCCTGCGCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTTAATGGAACAGT 1620
Qy 1621 GGGTGTGAGGACAGTGGGCTCTCTCCCACTCCACCCCGCGCTCTCGGGGCGCTCTGCGCTG 1680
Db 1621 GGGTGTGAGGACAGTGGGCTCTCTCCCACTCCACCCCGCGCTCTCGGGGCGCTCTGCGCTG 1680
Qy 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGGCCACCGAGGCCAGGGTGGTTCCGGGCGG 1740
Db 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGGCCACCGAGGCCAGGGTGGTTCCGGGCGG 1740
Qy 1741 GGGCATCTGCGTGAACCTCGCATCTCGATAGTGCCTTCCTGCTGCTCCAGGTGGCGCC 1800
Db 1741 GGGCATCTGCGTGAACCTCGCATCTCGATAGTGCCTTCCTGCTGCTCCAGGTGGCGCC 1800
Qy 1801 ATCCCTCTTTATGGGCTCAATGTCCAGCTCAGCCAGTCTGTCACTGCTATATGGTGTG 1860
Db 1801 ATCCCTCTTTATGGGCTCAATGTCCAGCTCAGCCAGTCTGTCACTGCTATATGGTGTG 1860
Qy 1861 TGCCGAGGCGTGGGTCTGCTCGCATTTACTTTGTCTACACAGGTAGTATTTGACAAGAG 1920
Db 1861 TGCCGAGGCGTGGGTCTGCTCGCATTTACTTTGTCTACACAGGTAGTATTTGACAAGAG 1920
Qy 1921 CGACTTGGCCAAATACTCAGCTAGGAGTAACTTCCAGCACATTTGGGGTGGAGGCGCTGCGT 1980
Db 1921 CGACTTGGCCAAATACTCAGCTAGGAGTAACTTCCAGCACATTTGGGGTGGAGGCGCTGCGT 1980
Qy 1981 CACTGGGTCCCAAGCTCCCGCTCTCTGTAGCCCATGGGGCTGCGGGCTGGCCGCCAGT 2040
Db 1981 CACTGGGTCCCAAGCTCCCGCTCTCTGTAGCCCATGGGGCTGCGGGCTGGCCGCCAGT 2040
Qy 2041 TTCTGTGTGTCACAAAGTAAATGTGGTCTCTGTCTGCCACCTGTGCTGTGCTGAGGTGCGTA 2100
Db 2041 TTCTGTGTGTCACAAAGTAAATGTGGTCTCTGTCTGCCACCTGTGCTGTGCTGAGGTGCGTA 2100
Qy 2101 GGTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db 2101 GGTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGAGGCTCTTCAAGGGGTTTCAGTCTTGACTTATACAGGGAGGCGCAGAGGGCTCC 2220
Db 2161 ACTGAGGCTCTTCAAGGGGTTTCAGTCTTGACTTATACAGGGAGGCGCAGAGGGCTCC 2220
Qy 2221 ATGCACTGGAATGCGGGGACTCTGAGGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Db 2221 ATGCACTGGAATGCGGGGACTCTGAGGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Qy 2281 CTCCTAGTGTAGACACACTAGAGAGGGTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Db 2281 CTCCTAGTGTAGACACACTAGAGAGGGTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Qy 2341 GTTTCCTCATCTTAAGCCCTTAACTGCAGCTTCGTTTAAATGTAGCTCTTGCATGGAG 2400
Db 2341 GTTTCCTCATCTTAAGCCCTTAACTGCAGCTTCGTTTAAATGTAGCTCTTGCATGGAG 2400
Qy 2401 TTTCTAGGATGAAACACTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Db 2401 TTTCTAGGATGAAACACTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 GTCCCTGAGGGGAAACACACAGAACAGGTCCCTCAGCCACAGCACTGCTTTTGTCT 2520
Db 2461 GTCCCTGAGGGGAAACACACAGAACAGGTCCCTCAGCCACAGCACTGCTTTTGTCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGCGCTGGTCTCTCTGTGTGCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGGCGCTGGTCTCTCTGTGTGCATCA 2580
Qy 2581 CAGAGACACAGGCATTTAAATTTAACTTATTTAAACAAAGTAGAGGGAATCCAT 2640
Db 2581 CAGAGACACAGGCATTTAAATTTAACTTATTTAAACAAAGTAGAGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTCTGTGTGGTGTCTAAATATTTGGGTAGGGTGGGGATCCCCACAATCA 2700
Db 2641 TGCTAGCTTTCTGTGTGGTGTCTAAATATTTGGGTAGGGTGGGGATCCCCACAATCA 2700

Qy 2701 GGTCCCTGAGATAGCTGGTCAITGGGCTGATCATTTGCCAGAACTTTCTTCTCTGGGT 2760
Db 2701 GGTCCCTGAGATAGCTGGTCAITGGGCTGATCATTTGCCAGAACTTTCTTCTCTGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCGCTAAACCCAGGACCTTTGGAATTTCTACTCATCCCAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCGCTAAACCCAGGACCTTTGGAATTTCTACTCATCCCAATGATAAT 2820
Qy 2821 TCCAAATGCTCTTACCCAAAGGTTAGGGTGTGGAAGGAGGTAGAGGTGGGGCTTCAGT 2880
Db 2821 TCCAAATGCTCTTACCCAAAGGTTAGGGTGTGGAAGGAGGTAGAGGTGGGGCTTCAGT 2880
Qy 2881 CTCAACGGCTTCCCTTAACCAACCCCTCTTCTCTTGGCCAGCTGTGTTCCGCCACTTCCA 2940
Db 2881 CTCAACGGCTTCCCTTAACCAACCCCTCTTCTCTTGGCCAGCTGTGTTCCGCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCTCTGTTGGAGCTACT 3060
Db 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCTCTGTTGGAGCTACT 3060
Qy 3061 GCAGGACAGAGACAAAGTGGGTTTCCCAAGCTTTTGTCCATCTCAGGCCCCAGAGT 3120
Db 3061 GCAGGACAGAGACAAAGTGGGTTTCCCAAGCTTTTGTCCATCTCAGGCCCCAGAGT 3120
Qy 3121 ATATCTGTGTTGGGAACTCTCACACAGAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGTTGGGAACTCTCACACAGAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180
Qy 3181 GAGTCTTTATCTCTCAGGGGGTTTAAAGTCCGTTTGCATAATGTCTTATTTATT 3240
Db 3181 GAGTCTTTATCTCTCAGGGGGTTTAAAGTCCGTTTAAAGTCCGTTTGCATAATGTCTTATTTATT 3240
Qy 3241 TAGCGGGTGAATATTTTATATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGTTGACA 3300
Db 3241 TAGCGGGTGAATATTTTATATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGTTGACA 3300
Qy 3301 AAATTTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AA 3410
Db 3361 AA 3410

Search completed: June 15, 2005, 21:55:10
Job time : 1927 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 16, 2005, 12:48:08 ; Search time 44 Seconds
(without alignments)
938.203 Million cell updates/sec

Title: US-09-605-783A-113

Perfect score: 2861

Sequence: 1 MVQRLWVSRLLRHRKAQLL.....AIYFATQVDFKSLAKYSA 553

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/ptodata/1/iaa/5A COMB.pep.*
- 2: /cgn2_6/ptodata/1/iaa/5B COMB.pep.*
- 3: /cgn2_6/ptodata/1/iaa/6A COMB.pep.*
- 4: /cgn2_6/ptodata/1/iaa/6B COMB.pep.*
- 5: /cgn2_6/ptodata/1/iaa/PTCUS COMB.pep.*
- 6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2861	100.0	553	3	US-09-020-956-113
2	2861	100.0	553	3	US-09-030-607-113
3	2861	100.0	553	3	US-09-439-313-113
4	2861	100.0	553	3	US-09-352-616A-113
5	2861	100.0	553	4	US-09-602-877A-101
6	2861	100.0	553	4	US-09-232-149A-113
7	2861	100.0	553	4	US-09-159-812-113
8	2861	100.0	553	4	US-09-636-215-113
9	2861	100.0	553	4	US-09-685-166A-113
10	2861	100.0	553	4	US-09-115-453-113
11	2861	100.0	553	4	US-09-688-489-113
12	2861	100.0	553	4	US-09-679-426-113
13	2861	100.0	553	4	US-09-759-143-113
14	2861	100.0	553	4	US-09-651-236-113
15	1417.5	49.5	371	4	US-09-636-215-708
16	1417.5	49.5	371	4	US-09-685-166A-708
17	1417.5	49.5	371	4	US-09-679-426-708
18	1417.5	49.5	371	4	US-09-759-143-708
19	1417.5	49.5	371	4	US-09-651-236-708
20	1403.5	49.1	400	4	US-09-636-215-852
21	1403.5	49.1	400	4	US-09-685-166A-852
22	1403.5	49.1	400	4	US-09-679-426-852
23	1403.5	49.1	400	4	US-09-759-143-852
24	1403.5	49.1	400	4	US-09-651-236-852
25	1287	45.0	255	3	US-09-071-710-36
26	1287	45.0	255	3	US-09-525-397-36
27	452	15.8	84	3	US-09-439-313-571

Sequence 706, App
Sequence 706, App
Sequence 706, App
Sequence 706, App
Sequence 706, App
Sequence 45501, A
Sequence 42141, A
Sequence 4, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 547, App
Sequence 547, App
Sequence 547, App
Sequence 547, App
Sequence 547, App
Sequence 564, App

ALIGNMENTS

RESULT 1
US-09-020-956-113
; Sequence 113, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-6031
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 553 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-020-956-113

Query Match 100.0%; Score 2861; DB 3; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLLRHRKAQLLNLTFGLVCLAGITYVPPLLEVGVBKFTMTVLIG 60
Db 1 MVQRLWVSRLLRHRKAQLLNLTFGLVCLAGITYVPPLLEVGVBKFTMTVLIG 60

Qy 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSGLILLSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSGLILLSLFLIPRAGWLAGLLCPDPRPL 120
Qy 121 ELALLIILGVLLDFCGQVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLIILGVLLDFCGQVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAAPYLGTOEECLFGLLTLLIFLTCVAATLLVAEEAALGTPBAGLSAPLSLSPH 240
Db 181 IDWDTSAAPYLGTOEECLFGLLTLLIFLTCVAATLLVAEEAALGTPBAGLSAPLSLSPH 240
Qy 241 CCPCRARLAFNLCALLPRLHQLCCMRPRTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFNLCALLPRLHQLCCMRPRTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Db 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIYFATQ 540
Db 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIYFATQ 540
Qy 541 VVFDKSLAKYSA 553
Db 541 VVFDKSLAKYSA 553

RESULT 2

US-09-030-607-113
; Sequence 113, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 553 amino acids

; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-113

Query Match 100.0%; Score 2861; DB 3; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWYSRLRRHRKAQALLVNLITTFGLEVCLAAGITVVPPLLELVGVEEKFMTMWLGIG 60
Db 1 MVQRLWYSRLRRHRKAQALLVNLITTFGLEVCLAAGITVVPPLLELVGVEEKFMTMWLGIG 60
Qy 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSGLILLSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSGLILLSLFLIPRAGWLAGLLCPDPRPL 120
Qy 121 ELALLIILGVLLDFCGQVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLIILGVLLDFCGQVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAAPYLGTOEECLFGLLTLLIFLTCVAATLLVAEEAALGTPBAGLSAPLSLSPH 240
Db 181 IDWDTSAAPYLGTOEECLFGLLTLLIFLTCVAATLLVAEEAALGTPBAGLSAPLSLSPH 240
Qy 241 CCPCRARLAFNLCALLPRLHQLCCMRPRTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFNLCALLPRLHQLCCMRPRTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Db 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIYFATQ 540
Db 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIYFATQ 540
Qy 541 VVFDKSLAKYSA 553
Db 541 VVFDKSLAKYSA 553

RESULT 3

US-09-439-313-113
; Sequence 113, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Reed, Steven G.
; APPLICANT: Jiang Yuqui
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solt, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313


```
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-439-313-113

Query Match      100.0%; Score 2861; DB 3; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLELVGVEEKFMVTLGIG 60
Db 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLELVGVEEKFMVTLGIG 60
Qy 61 PVGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Db 61 PVGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Qy 121 ELALLIIGVGLLDFCGQVCFPLEALLSDLPDRDPHCRQAYSVYAFMISLGGCIGYLLPA 180
Db 121 ELALLIIGVGLLDFCGQVCFPLEALLSDLPDRDPHCRQAYSVYAFMISLGGCIGYLLPA 180
Qy 181 IDWDTSAAPYLGTOEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPLSLPH 240
Db 181 IDWDTSAAPYLGTOEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPLSLPH 240
Qy 241 CCPCRARLAFNRLGALLPRLHQLCCMRPRTLRLRFVAELCSMMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFNRLGALLPRLHQLCCMRPRTLRLRFVAELCSMMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKQVFLPKRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKQVFLPKRGDTGG 420
Qy 421 ASSEDSLMTSFLPGKPGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Db 421 ASSEDSLMTSFLPGKPGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYVWVSAAGLGLVAVIYFATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYVWVSAAGLGLVAVIYFATQ 540
Qy 541 VFDPKSLAKYSA 553
Db 541 VFDPKSLAKYSA 553

RESULT 4
US-09-352-616A-113
; Sequence 113, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602.877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 101
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-602-877A-101

Query Match      100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLELVGVEEKFMVTLGIG 60
Db 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLELVGVEEKFMVTLGIG 60
Qy 61 PVGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Db 61 PVGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Qy 121 ELALLIIGVGLLDFCGQVCFPLEALLSDLPDRDPHCRQAYSVYAFMISLGGCIGYLLPA 180
Db 121 ELALLIIGVGLLDFCGQVCFPLEALLSDLPDRDPHCRQAYSVYAFMISLGGCIGYLLPA 180
Qy 181 IDWDTSAAPYLGTOEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPLSLPH 240
Db 181 IDWDTSAAPYLGTOEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPLSLPH 240
Qy 241 CCPCRARLAFNRLGALLPRLHQLCCMRPRTLRLRFVAELCSMMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFNRLGALLPRLHQLCCMRPRTLRLRFVAELCSMMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKQVFLPKRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKQVFLPKRGDTGG 420
Qy 421 ASSEDSLMTSFLPGKPGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Db 421 ASSEDSLMTSFLPGKPGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYVWVSAAGLGLVAVIYFATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYVWVSAAGLGLVAVIYFATQ 540
Qy 541 VFDPKSLAKYSA 553
Db 541 VFDPKSLAKYSA 553

RESULT 5
US-09-602-877A-101
; Sequence 101, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602.877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 101
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-602-877A-101

Query Match      100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1 MVQRLWVSRLLRHRKAQALLVNLITFGLEVCLAAGITYVPPDLLLEVGVEEKFMTMVLGIG 60
DB 1 MVQRLWVSRLLRHRKAQALLVNLITFGLEVCLAAGITYVPPDLLLEVGVEEKFMTMVLGIG 60
QY 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
DB 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
QY 121 ELALLIIGVGLLDPCGGVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCIGYLLPA 180
DB 121 ELALLIIGVGLLDPCGGVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCIGYLLPA 180
QY 181 IDWTSALAPYLGTOEBCFLGILLTLIFLTCVAATLLVAEEAALGPTBPAEGLSAPLSPH 240
DB 181 IDWTSALAPYLGTOEBCFLGILLTLIFLTCVAATLLVAEEAALGPTBPAEGLSAPLSPH 240
QY 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
DB 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
QY 301 YQGVPRAPGTEARRHYDEGVMSGLGLFQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
DB 301 YQGVPRAPGTEARRHYDEGVMSGLGLFQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
QY 361 AFPVAAGATCLSHSVAVVTASAAITGFTFSAIQILPYTLASLYHREKQVFLPKYRGDTGG 420
DB 361 AFPVAAGATCLSHSVAVVTASAAITGFTFSAIQILPYTLASLYHREKQVFLPKYRGDTGG 420
QY 421 ASSDLSMTSFLPGPKGAPFNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
DB 421 ASSDLSMTSFLPGPKGAPFNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
QY 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
DB 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
QY 541 VVFDKSLAKYSA 553
DB 541 VVFDKSLAKYSA 553

RESULT 6

US-09-232-149A-113
; Sequence 113, Application US/09232149A
; Patent No. 6465611

; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Jennifer Lynn
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-232-149A-113

Query Match 100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVQRLWVSRLLRHRKAQALLVNLITFGLEVCLAAGITYVPPDLLLEVGVEEKFMTMVLGIG 60
DB 1 MVQRLWVSRLLRHRKAQALLVNLITFGLEVCLAAGITYVPPDLLLEVGVEEKFMTMVLGIG 60
QY 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120

DB 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
QY 121 ELALLIIGVGLLDPCGGVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCIGYLLPA 180
DB 121 ELALLIIGVGLLDPCGGVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCIGYLLPA 180
QY 181 IDWTSALAPYLGTOEBCFLGILLTLIFLTCVAATLLVAEEAALGPTBPAEGLSAPLSPH 240
DB 181 IDWTSALAPYLGTOEBCFLGILLTLIFLTCVAATLLVAEEAALGPTBPAEGLSAPLSPH 240
QY 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
DB 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
QY 301 YQGVPRAPGTEARRHYDEGVMSGLGLFQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
DB 301 YQGVPRAPGTEARRHYDEGVMSGLGLFQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
QY 361 AFPVAAGATCLSHSVAVVTASAAITGFTFSAIQILPYTLASLYHREKQVFLPKYRGDTGG 420
DB 361 AFPVAAGATCLSHSVAVVTASAAITGFTFSAIQILPYTLASLYHREKQVFLPKYRGDTGG 420
QY 421 ASSDLSMTSFLPGPKGAPFNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
DB 421 ASSDLSMTSFLPGPKGAPFNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
QY 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
DB 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
QY 541 VVFDKSLAKYSA 553
DB 541 VVFDKSLAKYSA 553

RESULT 7

US-09-159-812-113
; Sequence 113, Application US/09159812A
; Patent No. 6613872

; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C5
; CURRENT APPLICATION NUMBER: US/09/159,812A
; CURRENT FILING DATE: 1998-09-23
; NUMBER OF SEQ ID NOS: 306
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-159-812-113

Query Match 100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MVQRLWVSRLLRHRKAQALLVNLITFGLEVCLAAGITYVPPDLLLEVGVEEKFMTMVLGIG 60
DB 1 MVQRLWVSRLLRHRKAQALLVNLITFGLEVCLAAGITYVPPDLLLEVGVEEKFMTMVLGIG 60
QY 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
DB 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
QY 121 ELALLIIGVGLLDPCGGVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCIGYLLPA 180
DB 121 ELALLIIGVGLLDPCGGVCFPTLEALLSDLPDPDHCRCQAYSVYAFMISLGGCIGYLLPA 180
QY 181 IDWTSALAPYLGTOEBCFLGILLTLIFLTCVAATLLVAEEAALGPTBPAEGLSAPLSPH 240

Db 181 IDWTSALAPYLGTQBECLFGLLLTLFLTCTVAATLLVAEEAALGTEPEAEGLSAPSLSPH 240
Qy 241 CCPCRARLAFRNLCALLPRLHQLCCMRPTLRLRLFVAELCSMMALMTFTLFTVDFVGBGL 300
Db 241 CCPCRARLAFRNLCALLPRLHQLCCMRPTLRLRLFVAELCSMMALMTFTLFTVDFVGBGL 300
Qy 301 YQGVPRABPGTEARRHYDEGVMSGLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRABPGTEARRHYDEGVMSGLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAATGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAATGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Qy 541 VVFDKSLAKYSA 553
Db 541 VVFDKSLAKYSA 553

RESULT 8

US-09-636-215-113
; Sequence 113, Application US/09636215
; Patent No. 6620922

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, John W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.42717C17

; CURRENT APPLICATION NUMBER: US/09/636.215

; CURRENT FILING DATE: 2000-08-10

; NUMBER OF SEQ ID NOS: 852

; SOFTWARE: Fast-SEQ for Windows Version 3.0

; SEQ ID NO 113

; LENGTH: 553

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-636-215-113

Query Match 100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWSRLRHRKAQLLVNLTLTFFGLEVCCLAAGITVVPVLLLEVGVEEKFMTWVLGIG 60
Db 1 MVQRLWSRLRHRKAQLLVNLTLTFFGLEVCCLAAGITVVPVLLLEVGVEEKFMTWVLGIG 60
Qy 61 PVLGLVCVPLLGASADHWGRYGRRRRPFIFWALSGLISLFLIPRAGWLACGLCPDRPL 120
Db 61 PVLGLVCVPLLGASADHWGRYGRRRRPFIFWALSGLISLFLIPRAGWLACGLCPDRPL 120

Qy 121 ELALLILGVGLLDFCGQVCFPTLEALLSDLFRDPDHCRQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLLDFCGQVCFPTLEALLSDLFRDPDHCRQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWTSALAPYLGTQBECLFGLLLTLFLTCTVAATLLVAEEAALGTEPEAEGLSAPSLSPH 240
Db 181 IDWTSALAPYLGTQBECLFGLLLTLFLTCTVAATLLVAEEAALGTEPEAEGLSAPSLSPH 240
Qy 241 CCPCRARLAFRNLCALLPRLHQLCCMRPTLRLRLFVAELCSMMALMTFTLFTVDFVGBGL 300
Db 241 CCPCRARLAFRNLCALLPRLHQLCCMRPTLRLRLFVAELCSMMALMTFTLFTVDFVGBGL 300
Qy 301 YQGVPRABPGTEARRHYDEGVMSGLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRABPGTEARRHYDEGVMSGLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAATGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAATGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Qy 541 VVFDKSLAKYSA 553
Db 541 VVFDKSLAKYSA 553

RESULT 9

US-09-685-166A-113
; Sequence 113, Application US/09685166A
; Patent No. 6630305

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C21

; CURRENT APPLICATION NUMBER: US/09/685.166A

; CURRENT FILING DATE: 2000-10-10

; NUMBER OF SEQ ID NOS: 898

; SOFTWARE: Fast-SEQ for Windows Version 3.0

; SEQ ID NO 113

; LENGTH: 553

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-685-166A-113

Query Match 100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLRHRKAQALLVNLTLFGLVCLAAAGITVVPPLLEVGVEEKFTMTVLGIG 60
Db 1 MVQRLWVSRLRHRKAQALLVNLTLFGLVCLAAAGITVVPPLLEVGVEEKFTMTVLGIG 60
Qy 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLLCPDPRPL 120
Qy 121 ELALLILGVGLDFCGQVCFPTLEALLSDLPDRDPDHCRQAYSVVAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPTLEALLSDLPDRDPDHCRQAYSVVAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAALPYLGTQEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Db 181 IDWDTSAALPYLGTQEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Qy 241 CCPCRLAFRNLGALLPRLHQLCCMRPTLRLRFLVaelCSMMALMTFTLYTDFVGEGL 300
Db 241 CCPCRLAFRNLGALLPRLHQLCCMRPTLRLRFLVaelCSMMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRABPGTEARRHYDEGRVMSGLFLQCAISLVSFLVMDRLVORFGTRAVYLASVA 360
Db 301 YQGVPRABPGTEARRHYDEGRVMSGLFLQCAISLVSFLVMDRLVORFGTRAVYLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Db 421 ASSEDSLMTSLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Qy 481 RVWPERGICLDLALDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAILYFATQ 540
Db 481 RVWPERGICLDLALDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAILYFATQ 540
Qy 541 VFEDKSLAKYSA 553
Db 541 VFEDKSLAKYSA 553
RESULT 10
US-09-115-453-113
; Sequence 113, Application US/09115453B
; Patent No. 6657056
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun C.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-115-453-113

Query Match 100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLRHRKAQALLVNLTLFGLVCLAAAGITVVPPLLEVGVEEKFTMTVLGIG 60
Db 1 MVQRLWVSRLRHRKAQALLVNLTLFGLVCLAAAGITVVPPLLEVGVEEKFTMTVLGIG 60
Qy 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLLCPDPRPL 120

Qy 121 ELALLILGVGLDFCGQVCFPTLEALLSDLPDRDPDHCRQAYSVVAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPTLEALLSDLPDRDPDHCRQAYSVVAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAALPYLGTQEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Db 181 IDWDTSAALPYLGTQEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Qy 241 CCPCRLAFRNLGALLPRLHQLCCMRPTLRLRFLVaelCSMMALMTFTLYTDFVGEGL 300
Db 241 CCPCRLAFRNLGALLPRLHQLCCMRPTLRLRFLVaelCSMMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRABPGTEARRHYDEGRVMSGLFLQCAISLVSFLVMDRLVORFGTRAVYLASVA 360
Db 301 YQGVPRABPGTEARRHYDEGRVMSGLFLQCAISLVSFLVMDRLVORFGTRAVYLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Db 421 ASSEDSLMTSLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
Qy 481 RVWPERGICLDLALDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAILYFATQ 540
Db 481 RVWPERGICLDLALDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAILYFATQ 540
Qy 541 VFEDKSLAKYSA 553
Db 541 VFEDKSLAKYSA 553
RESULT 11
US-09-688-489-113
; Sequence 113, Application US/09688489
; Patent No. 6664377
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun C.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427D2
; CURRENT APPLICATION NUMBER: US/09/688,489
; CURRENT FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-688-489-113
Query Match 100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLRHRKAQALLVNLTLFGLVCLAAAGITVVPPLLEVGVEEKFTMTVLGIG 60
Db 1 MVQRLWVSRLRHRKAQALLVNLTLFGLVCLAAAGITVVPPLLEVGVEEKFTMTVLGIG 60
Qy 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLLCPDPRPL 120
Qy 121 ELALLILGVGLDFCGQVCFPTLEALLSDLPDRDPDHCRQAYSVVAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPTLEALLSDLPDRDPDHCRQAYSVVAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAALPYLGTQEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Db 181 IDWDTSAALPYLGTQEECLFGLLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240

Qy 241 CCPCRLAFRNLCALLPRLHQLCCMRPTLRLRLFAELCSWMLMTFTLFTYTFDVGEG 300
Db 241 CCPCRLAFRNLCALLPRLHQLCCMRPTLRLRLFAELCSWMLMTFTLFTYTFDVGEG 300
Qy 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFPGTRAVYLA 360
Db 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFPGTRAVYLA 360
Qy 361 APVAAGATCLSHSVAVVTASAAALTGFTFSAQLQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAALTGFTFSAQLQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGKPGCAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEGTEA 480
Db 421 ASSEDSLMTSFLPGKPGCAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEGTEA 480
Qy 481 RVVPRGICLDLAIDLDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAIYFATQ 540
Db 481 RVVPRGICLDLAIDLDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAIYFATQ 540
Qy 541 VFDKSLAKYSA 553
Db 541 VFDKSLAKYSA 553

RESULT 12

US-09-679-426-113

; Sequence 113, Application US/09679426

; Patent No. 6759515

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C20

; CURRENT APPLICATION NUMBER: US/09/679,426

; CURRENT FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 895

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 113

; LENGTH: 553

; TYPE: PR

; ORGANISM: Homo sapien

US-09-679-426-113

Query Match 100.0%; Score 2861; DB 4; Length 553;
Best Local Similarity 100.0%; Pred. No. 6.4e-271; Indels 0; Gaps 0;
Matches 553; Conservative 0; Mismatches 0

Qy 1 MVQRLWVSRLRHRKAQLLVNLITFGLEVCLAAGITVPVPLLEVGVEEKFMTMVLGIG 60

Db 1 MVQRLWVSRLRHRKAQLLVNLITFGLEVCLAAGITVPVPLLEVGVEEKFMTMVLGIG 60

Qy 61 PVGLVLCVPLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCPDPRPL 120

Db 61 PVGLVLCVPLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCPDPRPL 120

Qy 121 ELALLILGVGLLDFCGQVCFPTPLBALLSDFRDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLLDFCGQVCFPTPLBALLSDFRDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAALPYLGTQBECLFGLLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Db 181 IDWDTSAALPYLGTQBECLFGLLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Qy 241 CCPCRLAFRNLCALLPRLHQLCCMRPTLRLRLFAELCSWMLMTFTLFTYTFDVGEG 300
Db 241 CCPCRLAFRNLCALLPRLHQLCCMRPTLRLRLFAELCSWMLMTFTLFTYTFDVGEG 300
Qy 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFPGTRAVYLA 360
Db 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFPGTRAVYLA 360
Qy 361 APVAAGATCLSHSVAVVTASAAALTGFTFSAQLQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAALTGFTFSAQLQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGKPGCAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEGTEA 480
Db 421 ASSEDSLMTSFLPGKPGCAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEGTEA 480
Qy 481 RVVPRGICLDLAIDLDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAIYFATQ 540
Db 481 RVVPRGICLDLAIDLDSAFLLSQVAPSLFMGSIVOLQSQTAYMVSAAGLGLVAIYFATQ 540
Qy 541 VFDKSLAKYSA 553
Db 541 VFDKSLAKYSA 553

RESULT 13

US-09-759-143-113

; Sequence 113, Application US/09759143

; Patent No. 6800746

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C23

; CURRENT APPLICATION NUMBER: US/09/759,143

; CURRENT FILING DATE: 2001-01-12

; NUMBER OF SEQ ID NOS: 934

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 113

; LENGTH: 553

; TYPE: PR

; ORGANISM: Homo sapien

US-09-759-143-113

Query Match 100.0%; Score 2861; DB 4; Length 553;

Best Local Similarity 100.0%; Pred. No. 6.4e-271; Indels 0; Gaps 0;

Matches 553; Conservative 0; Mismatches 0

Qy 1 MVQRLWVSRLRHRKAQLLVNLITFGLEVCLAAGITVPVPLLEVGVEEKFMTMVLGIG 60

```
Db 1 MVQLWVSRLLRHKAQQLLVNLLTFGLEVCCLAAGITVVPPLLELVGVEEKFMVWLIG 60
Qy 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Db 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Qy 121 ELALLILGVGLLDCGQVCFPTLEALLSDLFRDPDHCRQAYSVAFAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLLDCGQVCFPTLEALLSDLFRDPDHCRQAYSVAFAFMISLGGCLGYLLPA 180
Qy 181 IDWTSALAPYLGTQEBCFLGLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Db 181 IDWTSALAPYLGTQEBCFLGLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Qy 241 CCPCRARLAFRNLGALLPRLHQLCCRMPTLRLRFLVAELCSMMALMTFTLFYTFVGEGL 300
Db 241 CCPCRARLAFRNLGALLPRLHQLCCRMPTLRLRFLVAELCSMMALMTFTLFYTFVGEGL 300
Qy 301 YQGVPRABPGTEARRHYDEGRVMSGLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRABPGTEARRHYDEGRVMSGLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKOVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKOVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGTEA 480
Db 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGTEA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Qy 541 VVFDKSDLAKEYA 553
Db 541 VVFDKSDLAKEYA 553
```

RESULT 14

US-09-651-236-113
; Sequence 113, Application US/09651236
; Patent No. 6818751

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.42718C18

; CURRENT APPLICATION NUMBER: US/09/651,236

; CURRENT FILING DATE: 2000-08-29

; NUMBER OF SEQ ID NOS: 865

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 113

; LENGTH: 553

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-651-236-113

Query Match 100.0%; Score 2861; DB 4; Length 553;

Best Local Similarity 100.0%; Pred. No. 6.4e-271;

Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
Qy 1 MVQLWVSRLLRHKAQQLLVNLLTFGLEVCCLAAGITVVPPLLELVGVEEKFMVWLIG 60
Db 1 MVQLWVSRLLRHKAQQLLVNLLTFGLEVCCLAAGITVVPPLLELVGVEEKFMVWLIG 60
Qy 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Db 61 PVLGLVCPVLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDRPL 120
Qy 121 ELALLILGVGLLDCGQVCFPTLEALLSDLFRDPDHCRQAYSVAFAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLLDCGQVCFPTLEALLSDLFRDPDHCRQAYSVAFAFMISLGGCLGYLLPA 180
Qy 181 IDWTSALAPYLGTQEBCFLGLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Db 181 IDWTSALAPYLGTQEBCFLGLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Qy 241 CCPCRARLAFRNLGALLPRLHQLCCRMPTLRLRFLVAELCSMMALMTFTLFYTFVGEGL 300
Db 241 CCPCRARLAFRNLGALLPRLHQLCCRMPTLRLRFLVAELCSMMALMTFTLFYTFVGEGL 300
Qy 301 YQGVPRABPGTEARRHYDEGRVMSGLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRABPGTEARRHYDEGRVMSGLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKOVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAALTGFTFSALQILPYTLASLYHREKOVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGTEA 480
Db 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGTEA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Qy 541 VVFDKSDLAKEYA 553
Db 541 VVFDKSDLAKEYA 553
```

RESULT 15

US-09-636-215-708

; Sequence 708, Application US/09636215

; Patent No. 6620922

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.42717C17

; CURRENT APPLICATION NUMBER: US/09/636,215

```
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 708
; LENGTH: 371
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-636-215-708

Query Match      49.5%; Score 1417.5; DB 4; Length 371;
Best Local Similarity 90.0%; Pred. No. 5e-130;
Matches 269; Conservative 6; Mismatches 11; Indels 13; Gaps 1;

Qy 22 NLLTFGLEVCIAAGITYVPPLLELVGVVEEKFTMTVYLGIGPVVLGVVCPVLLGSASDHWGR 81
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 9 SLVPLPLALYLSQPLTHFTTSL-----AGIGPVVLGVVCPVLLGSASDHWGR 55

Qy 82 YGRRRPFTWALSGLILLSLFLIPRAGWLAGLLCPDPRPLELALLILGVGLLDPCGQVCFT 141
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 56 YGRRRPFTWALSGLILLSLFLIPRAGWLAGLLCPDPRPLELALLILGVGLLDPCGQVCFT 115

Qy 142 PLEALLSDFRDPHCROAYSVYAFMISLGGCLGYLLPAIDWDTSAAPYLGTOECCLFG 201
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 116 PLEALLSDFRDPHCROAYSVYAFMISLGGCLGYLLPAIDWDTSAAPYLGTOECCLFG 175

Qy 202 LLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRLH 261
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 176 LLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPSLSPHCCPCRARLAFRNLGALLPRLH 235

Qy 262 QLCCRMPTLRLRFVAELCSNMALMTFTLFTYDFVGEGLYQGVPRAEPTGTEARRHYDEG 320
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 236 QLCCRMPTLRLRFVAELCSNMALMTFTLFTYDFVGEGLYQGVPRAEPTGTEARRHYDEG 294
```

Search completed: June 16, 2005, 13:18:17
Job time : 46 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 16, 2005, 12:48:08 ; Search time 159 Seconds
(without alignments)
1335.476 Million cell updates/sec

Title: US-09-605-783A-113
Perfect score: 2861
Sequence: 1 MVQRLWVSRLLRHRKAQLL.....AIYPATQVVFCKSLAKYSA 553

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1714042 seqs, 383979560 residues

Total number of hits satisfying chosen parameters: 1714042

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10E_PUBCOMB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US10F_PUBCOMB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US11A_PUBCOMB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 21: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 22: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2861	100.0	553	9	US-09-745-288-101
2	2861	100.0	553	9	US-09-838-785-2
3	2861	100.0	553	9	US-09-759-143-113
4	2861	100.0	553	9	US-09-780-669-113
5	2861	100.0	553	9	US-09-030-606-113
6	2861	100.0	553	9	US-09-822-827-113
7	2861	100.0	553	9	US-09-115-453-113
8	2861	100.0	553	9	US-09-232-880-113
9	2861	100.0	553	9	US-09-895-793-113
10	2861	100.0	553	9	US-09-895-814-113
11	2861	100.0	553	13	US-10-012-896-113

12	2861	100.0	553	14	US-10-010-940-113	Sequence 113, App
13	2861	100.0	553	14	US-10-144-678A-113	Sequence 113, App
14	2861	100.0	553	14	US-10-005-907-113	Sequence 13, Appl
15	2861	100.0	553	14	US-10-294-025-113	Sequence 113, App
16	2861	100.0	553	15	US-10-295-027-548	Sequence 548, App
17	2861	100.0	553	15	US-10-295-027-902	Sequence 902, App
18	2861	100.0	553	15	US-10-453-919-101	Sequence 101, App
19	2861	100.0	553	16	US-10-688-838-113	Sequence 113, App
20	2861	100.0	553	16	US-10-403-142-2	Sequence 2, Appli
21	2861	100.0	553	17	US-10-936-626-99	Sequence 99, Appl
22	2861	100.0	553	17	US-10-938-061-99	Sequence 99, Appl
23	2861	100.0	553	17	US-10-732-923-24012	Sequence 24012, A
24	2861	100.0	1079	9	US-09-822-827-947	Sequence 947, App
25	2861	100.0	1079	9	US-09-895-793-947	Sequence 947, App
26	2798	97.8	553	17	US-10-732-923-24008	Sequence 24008, A
27	2619	91.5	553	17	US-10-732-923-23905	Sequence 23905, A
28	2602	90.9	553	17	US-10-732-923-23903	Sequence 23903, A
29	2601	90.9	710	14	US-10-296-770-4	Sequence 4, Appli
30	2531	88.5	501	17	US-10-732-923-24009	Sequence 24009, A
31	2099	73.4	450	17	US-10-732-923-23904	Sequence 23904, A
32	1696	59.3	359	9	US-09-832-827-974	Sequence 974, App
33	1696	59.3	359	9	US-09-895-793-974	Sequence 974, App
34	1677.5	58.6	530	14	US-10-296-770-5	Sequence 5, Appli
35	1517	53.0	305	14	US-10-144-678A-1029	Sequence 1029, Ap
36	1517	53.0	305	14	US-10-294-025-1029	Sequence 1029, Ap
37	1417.5	49.5	371	9	US-09-759-143-708	Sequence 708, App
38	1417.5	49.5	371	9	US-09-780-669-708	Sequence 708, App
39	1417.5	49.5	371	9	US-09-822-827-708	Sequence 708, App
40	1417.5	49.5	371	9	US-09-895-793-708	Sequence 708, App
41	1417.5	49.5	371	9	US-09-895-814-708	Sequence 708, App
42	1417.5	49.5	371	13	US-10-012-896-708	Sequence 708, App
43	1417.5	49.5	371	14	US-10-144-678A-708	Sequence 708, App
44	1417.5	49.5	371	14	US-10-294-025-708	Sequence 708, App
45	1416	49.5	371	11	US-09-833-245-852	Sequence 852, App

ALIGNMENTS

RESULT 1
US-09-745-288-101
; Sequence 101, Application US/09745288
; Patent No. US20010018058A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun C.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.446D1
; CURRENT APPLICATION NUMBER: US/09/745.288
; CURRENT FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 101
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
; US-09-745-288-101

Query Match	100.0%	Score 2861;	DB 9;	Length 553;
Best Local Similarity	100.0%	Pred. No. 7.7e-240;		
Matches 553;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MVQRLWVSRLLRHRKAQLLNLTLFGLEVCLAAGITVPPLELLEVGVEEKFMTVLIG 60		
Db	1	MVQRLWVSRLLRHRKAQLLNLTLFGLEVCLAAGITVPPLELLEVGVEEKFMTVLIG 60		
Qy	61	PVLGLVCPVLLGSADHWGRYGRRRPFIALSGILLSLFLIPRAGVLACGLCPDRPL 120		
Db	61	PVLGLVCPVLLGSADHWGRYGRRRPFIALSGILLSLFLIPRAGVLACGLCPDRPL 120		
Qy	121	ELALLILGVLLDFCGVCFPTPLEALLSDLPRDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180		

```
Db 121 ELALLILGVGLDFCGQVCFPTLEALLSDLFRDPDHCRQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAALPYLGTQEBECLFGLLTLIFLTCVAATLLVAEEAALGPTPEPAEGLSAPSLSPH 240
Db 181 IDWDTSAALPYLGTQEBECLFGLLTLIFLTCVAATLLVAEEAALGPTPEPAEGLSAPSLSPH 240
Qy 241 CCPCRARLAFRNLCALLPRLHQLCCRPRTLRRLFVABLCSWMALMTFTLFTYDFVGSGL 300
Db 241 CCPCRARLAFRNLCALLPRLHQLCCRPRTLRRLFVABLCSWMALMTFTLFTYDFVGSGL 300
Qy 301 YQGVPRAPGPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAPGPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIVOLQSOSVTAYMVSAAGLGLVAIYFATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIVOLQSOSVTAYMVSAAGLGLVAIYFATQ 540
Qy 541 VVFDKSDLAKYSA 553
Db 541 VVFDKSDLAKYSA 553
```

RESULT 2

```
US-09-838-785-2
; Sequence 2, Application US/09838785
; Patent No. US2002009455A1
; GENERAL INFORMATION:
; APPLICANT: Lau, Ted
; APPLICANT: Lin, Rick
; APPLICANT: Parkes, Debbie
; APPLICANT: Parry, Gordon
; APPLICANT: Schneider, Douglas
; APPLICANT: Steinbrecher, Renate
; APPLICANT: Van Heuit, Pam T
; APPLICANT: Wu, John
; TITLE OF INVENTION: DNA Encoding a No. US2002009455a1e1 PROST 03
; FILE REFERENCE: 51831AUSM1
; CURRENT APPLICATION NUMBER: US/09/838,785
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/200,065
; PRIOR FILING DATE: 2000-04-27
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-838-785-2
```

```
Query Match 100.0%; Score 2861; DB 9; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240; Indels 0; Gaps 0;
Matches 553; Conservative 0; Mismatches 0;

Qy 1 MVQRLWVSRLRHRKAQILLVNLTLTFFGLEVCIAAGITVVPPLLEVGVEEKFMTMVLGIG 60
Db 1 MVQRLWVSRLRHRKAQILLVNLTLTFFGLEVCIAAGITVVPPLLEVGVEEKFMTMVLGIG 60
Qy 61 PVGLVLCVPLIGSASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLCPDPRPL 120
Db 61 PVGLVLCVPLIGSASDHWGRYGRRRPFIWALSGLILSLFLIPRAGWLAGLCPDPRPL 120
Qy 121 ELALLILGVGLDFCGQVCFPTLEALLSDLFRDPDHCRQAYSVYAFMISLGGCLGYLLPA 180
```

```
Db 121 ELALLILGVGLDFCGQVCFPTLEALLSDLFRDPDHCRQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWDTSAALPYLGTQEBECLFGLLTLIFLTCVAATLLVAEEAALGPTPEPAEGLSAPSLSPH 240
Db 181 IDWDTSAALPYLGTQEBECLFGLLTLIFLTCVAATLLVAEEAALGPTPEPAEGLSAPSLSPH 240
Qy 241 CCPCRARLAFRNLCALLPRLHQLCCRPRTLRRLFVABLCSWMALMTFTLFTYDFVGSGL 300
Db 241 CCPCRARLAFRNLCALLPRLHQLCCRPRTLRRLFVABLCSWMALMTFTLFTYDFVGSGL 300
Qy 301 YQGVPRAPGPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAPGPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db 421 ASSEDSLMTSFLPGPKGAPPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIVOLQSOSVTAYMVSAAGLGLVAIYFATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIVOLQSOSVTAYMVSAAGLGLVAIYFATQ 540
Qy 541 VVFDKSDLAKYSA 553
Db 541 VVFDKSDLAKYSA 553
```

RESULT 3

```
US-09-759-143-113
; Sequence 113, Application US/09759143
; Patent No. US2002002248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Panger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759.143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-759-143-113
```

```
Query Match 100.0%; Score 2861; DB 9; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240; Indels 0; Gaps 0;
Matches 553; Conservative 0; Mismatches 0;

Qy 1 MVQRLWVSRLRHRKAQILLVNLTLTFFGLEVCIAAGITVVPPLLEVGVEEKFMTMVLGIG 60
Db 1 MVQRLWVSRLRHRKAQILLVNLTLTFFGLEVCIAAGITVVPPLLEVGVEEKFMTMVLGIG 60
```

```
Qy 61 PVGLVCVPLGASDHWGRYGRRRPFIWALSGLLSLFLIPRAGWLAGLCPDRPL 120
|
|
|
Db 61 PVGLVCVPLGASDHWGRYGRRRPFIWALSGLLSLFLIPRAGWLAGLCPDRPL 120
|
|
|
Qy 121 ELALLIIGVGLDPCGQVCFPLEALLSDLFRDPDHCROQSVYAFMISLGGCLGYLLPA 180
|
|
|
Db 121 ELALLIIGVGLDPCGQVCFPLEALLSDLFRDPDHCROQSVYAFMISLGGCLGYLLPA 180
|
|
|
Qy 181 IDWTSALAPYLGTQEECLFGLLTLLIPLTCAATLLVAEEAALGTEPAEGLSAPLSPH 240
|
|
|
Db 181 IDWTSALAPYLGTQEECLFGLLTLLIPLTCAATLLVAEEAALGTEPAEGLSAPLSPH 240
|
|
|
Qy 241 CCPCRLAFRNLCALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
|
|
|
Db 241 CCPCRLAFRNLCALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
|
|
|
Qy 301 YQGVPRAEPTGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
|
|
|
Db 301 YQGVPRAEPTGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
|
|
|
Qy 361 APVAAGATCLSHSVAVVTASAALTGFTFSAALQILPYTLASLYHREKQVFLPKYRGDTGG 420
|
|
|
Db 361 APVAAGATCLSHSVAVVTASAALTGFTFSAALQILPYTLASLYHREKQVFLPKYRGDTGG 420
|
|
|
Qy 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
|
|
|
Db 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
|
|
|
Qy 481 RVVPRGICDLAILDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
|
|
|
Db 481 RVVPRGICDLAILDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
|
|
|
Qy 541 VVFDKSLAKYSA 553
|
|
|
Db 541 VVFDKSLAKYSA 553
|
|
|
```

RESULT 4

US-09-780-669-113

; Sequence 113, Application US/09780669

; Patent No. US2002005197A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stoik, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedrick, Thomas S.

; APPLICANT: Carter, Barrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; APPLICANT: Hural, John

; APPLICANT: McNeill, Patricia D.

; APPLICANT: Houghton, Raymond L.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C24

; CURRENT APPLICATION NUMBER: US/09/780.669

; CURRENT FILING DATE: 2001-02-09

; NUMBER OF SEQ ID NOS: 943

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 113

; LENGTH: 553

; TYPE: PRT

; ORGANISM: Homo sapien

US-09-780-669-113

Query Match 100.0%; Score 2861; DB 9; Length 553;

Best Local Similarity 100.0%; Pred. No. 7.7e-240; Indels 0; Gaps 0;

Matches 553; Conservative 0; Mismatches 0;

```
Qy 1 MVQRLWYSRLLRHKAKQLLVNLLTFLGLEVCLAAGITYVPPLLEVGVEEKFTMTVLGIG 60
|
|
|
Db 1 MVQRLWYSRLLRHKAKQLLVNLLTFLGLEVCLAAGITYVPPLLEVGVEEKFTMTVLGIG 60
|
|
|
Qy 61 PVGLVCVPLGASDHWGRYGRRRPFIWALSGLLSLFLIPRAGWLAGLCPDRPL 120
|
|
|
Db 61 PVGLVCVPLGASDHWGRYGRRRPFIWALSGLLSLFLIPRAGWLAGLCPDRPL 120
|
|
|
Qy 121 ELALLIIGVGLDPCGQVCFPLEALLSDLFRDPDHCROQSVYAFMISLGGCLGYLLPA 180
|
|
|
Db 121 ELALLIIGVGLDPCGQVCFPLEALLSDLFRDPDHCROQSVYAFMISLGGCLGYLLPA 180
|
|
|
Qy 181 IDWTSALAPYLGTQEECLFGLLTLLIPLTCAATLLVAEEAALGTEPAEGLSAPLSPH 240
|
|
|
Db 181 IDWTSALAPYLGTQEECLFGLLTLLIPLTCAATLLVAEEAALGTEPAEGLSAPLSPH 240
|
|
|
Qy 241 CCPCRLAFRNLCALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
|
|
|
Db 241 CCPCRLAFRNLCALLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
|
|
|
Qy 301 YQGVPRAEPTGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
|
|
|
Db 301 YQGVPRAEPTGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVORFGTRAVYLASVA 360
|
|
|
Qy 361 APVAAGATCLSHSVAVVTASAALTGFTFSAALQILPYTLASLYHREKQVFLPKYRGDTGG 420
|
|
|
Db 361 APVAAGATCLSHSVAVVTASAALTGFTFSAALQILPYTLASLYHREKQVFLPKYRGDTGG 420
|
|
|
Qy 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
|
|
|
Db 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTA 480
|
|
|
Qy 481 RVVPRGICDLAILDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
|
|
|
Db 481 RVVPRGICDLAILDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
|
|
|
Qy 541 VVFDKSLAKYSA 553
|
|
|
Db 541 VVFDKSLAKYSA 553
|
|
|
```

RESULT 5

US-09-030-606-113

; Sequence 113, Application US/09030606

; Patent No. US20020081580A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS F

; NUMBER OF SEQUENCES: 224

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED AND BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: WA

; COUNTRY: USA

; ZIP: 98104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/030.606

; FILING DATE: 25-FEB-1998

; CLASSIFICATION:

```

; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.428C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 113:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 553 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-606-113

```

Query Match 100.0%; Score 2861; DB 9; Length 553;
 Best Local Similarity 100.0%; Pred. No. 7.7e-240;
 Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy 1 MVQRLWVSRLRHRKAQLLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTWVLGIG 60
Db 1 MVQRLWVSRLRHRKAQLLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTWVLGIG 60
Qy 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120
Qy 121 ELALLILGVGLDFCGQVCFPLEALLSDLFDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPLEALLSDLFDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWTSALAPYLGTQEBCFLGLTLITLTCVAATLLVAEEAALGPTPEAGLSAPLSPH 240
Db 181 IDWTSALAPYLGTQEBCFLGLTLITLTCVAATLLVAEEAALGPTPEAGLSAPLSPH 240
Qy 241 CCPCRARLAFNGLGALLPRLHQLCCMRPTRLRRLFVAELCSWMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFNGLGALLPRLHQLCCMRPTRLRRLFVAELCSWMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRAEPTGARHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAEPTGARHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480
Db 421 ASSEDSLMTSFLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIFYATQ 540
Qy 541 VVFDKSDLAKYSA 553
Db 541 VVFDKSDLAKYSA 553

```

RESULT 6
 US-09-822-827-113
 ; Sequence 113, Application US/09822827
 ; Patent No. US20020081680A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; FILE REFERENCE: 210121.534C1
 ; CURRENT APPLICATION NUMBER: US/09/822,827

```

; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-822-827-113

```

Query Match 100.0%; Score 2861; DB 9; Length 553;
 Best Local Similarity 100.0%; Pred. No. 7.7e-240;
 Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy 1 MVQRLWVSRLRHRKAQLLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTWVLGIG 60
Db 1 MVQRLWVSRLRHRKAQLLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTWVLGIG 60
Qy 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120
Qy 121 ELALLILGVGLDFCGQVCFPLEALLSDLFDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPLEALLSDLFDPDHCRCQAYSVYAFMISLGGCLGYLLPA 180
Qy 181 IDWTSALAPYLGTQEBCFLGLTLITLTCVAATLLVAEEAALGPTPEAGLSAPLSPH 240
Db 181 IDWTSALAPYLGTQEBCFLGLTLITLTCVAATLLVAEEAALGPTPEAGLSAPLSPH 240
Qy 241 CCPCRARLAFNGLGALLPRLHQLCCMRPTRLRRLFVAELCSWMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFNGLGALLPRLHQLCCMRPTRLRRLFVAELCSWMALMTFTLYTDFVGEGL 300
Qy 301 YQGVPRAEPTGARHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAEPTGARHYDEGVRMGSLGLFLOCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Qy 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Qy 421 ASSEDSLMTSFLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480
Db 421 ASSEDSLMTSFLPGPKPGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIQVLSQSVTAYMVSAAGLGLVAIFYATQ 540
Qy 541 VVFDKSDLAKYSA 553
Db 541 VVFDKSDLAKYSA 553

```

RESULT 7
 US-09-115-453-113
 ; Sequence 113, Application US/09115453B
 ; Patent No. US20020090372A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
 ; FILE REFERENCE: 210121.427C4
 ; CURRENT APPLICATION NUMBER: US/09/115,453B
 ; CURRENT FILING DATE: 1998-07-14
 ; NUMBER OF SEQ ID NOS: 228
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 113
 ; LENGTH: 553
 ; TYPE: PRT
 ; ORGANISM: Homo sapien
 ; US-09-115-453-113

```
Query Match      100.0%; Score 2861; DB 9; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLLRHRKAQALLVNLTLFGLVCLAAAGITVPVPLLLLEVGVEEKFMTMTVLGIG 60
Db 1 MVQRLWVSRLLRHRKAQALLVNLTLFGLVCLAAAGITVPVPLLLLEVGVEEKFMTMTVLGIG 60

Qy 61 PVGLVGVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120
Db 61 PVGLVGVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120

Qy 121 ELALLILGVGLDFCGQVCFPTPLEALLSDLPDCHCRQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPTPLEALLSDLPDCHCRQAYSVYAFMISLGGCLGYLLPA 180

Qy 181 IDWTSALAPYLGTQEBCLFGLLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Db 181 IDWTSALAPYLGTQEBCLFGLLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240

Qy 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRRLPFAELCSWMLMTFTLFYDFVGEGL 300
Db 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRRLPFAELCSWMLMTFTLFYDFVGEGL 300

Qy 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360

Qy 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420

Qy 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVGEPTA 480
Db 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVGEPTA 480

Qy 481 RVVPGRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPGRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540

Qy 541 VVFDKSLAKYSA 553
Db 541 VVFDKSLAKYSA 553

RESULT 8
US-09-232-880-113
; Sequence 113, Application US/09232880
; Publication No. US20020182596A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C6
; CURRENT APPLICATION NUMBER: US/09/232,880
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapien
US-09-232-880-113

Query Match      100.0%; Score 2861; DB 9; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLLRHRKAQALLVNLTLFGLVCLAAAGITVPVPLLLLEVGVEEKFMTMTVLGIG 60
Db 1 MVQRLWVSRLLRHRKAQALLVNLTLFGLVCLAAAGITVPVPLLLLEVGVEEKFMTMTVLGIG 60

Qy 61 PVGLVGVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120
Db 61 PVGLVGVPLLGASDHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120

Qy 121 ELALLILGVGLDFCGQVCFPTPLEALLSDLPDCHCRQAYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPTPLEALLSDLPDCHCRQAYSVYAFMISLGGCLGYLLPA 180

Qy 181 IDWTSALAPYLGTQEBCLFGLLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Db 181 IDWTSALAPYLGTQEBCLFGLLLTLIFLTCVAATLLVAEEAALGTEPAEGLSAPLSPH 240

Qy 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRRLPFAELCSWMLMTFTLFYDFVGEGL 300
Db 241 CCPCRLAFRNIGALLPRLHQLCCRMPTLRRLPFAELCSWMLMTFTLFYDFVGEGL 300

Qy 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGVRMGSLGLFLQCAISLVFSLVMDRLVQRFGRVAVLASVA 360

Qy 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APVAAGATCLSHSVAVVTASAAALTGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420

Qy 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVGEPTA 480
Db 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVGEPTA 480

Qy 481 RVVPGRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPGRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540

Qy 541 VVFDKSLAKYSA 553
Db 541 VVFDKSLAKYSA 553

RESULT 9
US-09-895-793-113
; Sequence 113, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C2
; CURRENT APPLICATION NUMBER: US/09/895,793
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
```

```
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PR1
; ORGANISM: Homo sapien
US-09-895-793-113

Query Match      100.0%; Score 2861; DB 9; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240; Indels 0; Gaps 0;
Matches 553; Conservative 0; Mismatches 0;

Qy 1 MVQRLWVSRLRHRKAQALLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTMVLGIG 60
Db 1 MVQRLWVSRLRHRKAQALLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTMVLGIG 60

Qy 61 PVLGLVCVPLLGASDHWGRYGRRRPFIFWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120
Db 61 PVLGLVCVPLLGASDHWGRYGRRRPFIFWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120

Qy 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDHCROQYSVYAFMISLGGCLGYLLPA 180
Db 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDHCROQYSVYAFMISLGGCLGYLLPA 180

Qy 181 IDWTSALAPYLGTQEECLFGLLTILFLITCVAATLLVAEEAALGTEPAEGLSAPLSPH 240
Db 181 IDWTSALAPYLGTQEECLFGLLTILFLITCVAATLLVAEEAALGTEPAEGLSAPLSPH 240

Qy 241 CCPCRARLAFNGLGALLPRLHQLCCRPRTLRRLFVAELCSWMALMTFTLFYTFVGEGL 300
Db 241 CCPCRARLAFNGLGALLPRLHQLCCRPRTLRRLFVAELCSWMALMTFTLFYTFVGEGL 300

Qy 301 YQGVPRABPGTEARRHYDEGVRMGSLGLFLOCAISLVESLVMDRLVORFGTRAVYLASVA 360
Db 301 YQGVPRABPGTEARRHYDEGVRMGSLGLFLOCAISLVESLVMDRLVORFGTRAVYLASVA 360

Qy 361 APPVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db 361 APPVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420

Qy 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480

Qy 481 RVVPRGICLDLAILDSAFLLSOVAPSLFMGSIIVQLSOSVTAYMVVSAAGLGLVIFYATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSOVAPSLFMGSIIVQLSOSVTAYMVVSAAGLGLVIFYATQ 540

Qy 541 VVFDKSDLAKYSA 553
Db 541 VVFDKSDLAKYSA 553
```

RESULT 10

```
US-09-895-814-113
; Sequence 113, Application US/09895814
; Publication No. US20020193296A1
```

GENERAL INFORMATION:

```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
```

```
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassois, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C26
; CURRENT APPLICATION NUMBER: US/09/895,814
; NUMBER OF SEQ ID NOS: 990
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PR1
; ORGANISM: Homo sapien
US-09-895-814-113
```

Query Match 100.0%; Score 2861; DB 9; Length 553;

Best Local Similarity 100.0%; Pred. No. 7.7e-240; Indels 0; Gaps 0;

Matches 553; Conservative 0; Mismatches 0;

Qy 1 MVQRLWVSRLRHRKAQALLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTMVLGIG 60

Db 1 MVQRLWVSRLRHRKAQALLVNLITFGLEVCLAAGITYVPPLLEVGVEEKFMTMVLGIG 60

Qy 61 PVLGLVCVPLLGASDHWGRYGRRRPFIFWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120

Db 61 PVLGLVCVPLLGASDHWGRYGRRRPFIFWALSIGILLSLFLIPRAGWLAGLLCPDPRPL 120

Qy 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDHCROQYSVYAFMISLGGCLGYLLPA 180

Db 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDHCROQYSVYAFMISLGGCLGYLLPA 180

Qy 181 IDWTSALAPYLGTQEECLFGLLTILFLITCVAATLLVAEEAALGTEPAEGLSAPLSPH 240

Db 181 IDWTSALAPYLGTQEECLFGLLTILFLITCVAATLLVAEEAALGTEPAEGLSAPLSPH 240

Qy 241 CCPCRARLAFNGLGALLPRLHQLCCRPRTLRRLFVAELCSWMALMTFTLFYTFVGEGL 300

Db 241 CCPCRARLAFNGLGALLPRLHQLCCRPRTLRRLFVAELCSWMALMTFTLFYTFVGEGL 300

Qy 301 YQGVPRABPGTEARRHYDEGVRMGSLGLFLOCAISLVESLVMDRLVORFGTRAVYLASVA 360

Db 301 YQGVPRABPGTEARRHYDEGVRMGSLGLFLOCAISLVESLVMDRLVORFGTRAVYLASVA 360

Qy 361 APPVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420

Db 361 APPVAAGATCLSHSVAVVTASAAITGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420

Qy 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480

Db 421 ASSEDSLMTSFLPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480

Qy 481 RVVPRGICLDLAILDSAFLLSOVAPSLFMGSIIVQLSOSVTAYMVVSAAGLGLVIFYATQ 540

Db 481 RVVPRGICLDLAILDSAFLLSOVAPSLFMGSIIVQLSOSVTAYMVVSAAGLGLVIFYATQ 540

Qy 541 VVFDKSDLAKYSA 553

Db 541 VVFDKSDLAKYSA 553

RESULT 11

```
US-10-012-896-113
; Sequence 113, Application US/10012896
; Publication No. US20020183251A1
```

GENERAL INFORMATION:

```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
```


APPLICANT: Kalos, Michael D.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedwick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals de Bassols, Carlota
APPLICANT: Foy, Teresa
APPLICANT: Fanger, Gary R.
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Meagher, Madeleine Joy
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C27
CURRENT APPLICATION NUMBER: US/10/012,896
CURRENT FILING DATE: 2001-12-10
NUMBER OF SEQ ID NOS: 1011
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 113
LENGTH: 553
TYPE: PRT
ORGANISM: Homo sapiens
US-10-012-896-113

Query Match 100.0%; Score 2861; DB 13; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLEVGVEEKFMVTLGIG 60
Db 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLEVGVEEKFMVTLGIG 60

Qy 61 PVGLVCVPLLGASDHWGRYGRRRPFIMWLSLIGILLSLFLIPRAGWLAGLLCPDRPL 120
Db 61 PVGLVCVPLLGASDHWGRYGRRRPFIMWLSLIGILLSLFLIPRAGWLAGLLCPDRPL 120

Qy 121 ELALLIIGVGLDFCGQVCFPLEALLSDLPDPDHCQAYSVYAFMISLGGCIGYLLPA 180
Db 121 ELALLIIGVGLDFCGQVCFPLEALLSDLPDPDHCQAYSVYAFMISLGGCIGYLLPA 180

Qy 181 IDWDTSAAPYLGTOEBCLFGLLTILFTCTVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Db 181 IDWDTSAAPYLGTOEBCLFGLLTILFTCTVAATLLVAEEAALGPTPEAGLSAPSLSPH 240

Qy 241 CCPCRARLAFRNLAGLLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFRNLAGLLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300

Qy 301 YQGVPRAPGTEARRHYDEGRVMSGLGLFOCALISLVFSLVMDRLVORFGTRAVYLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGRVMSGLGLFOCALISLVFSLVMDRLVORFGTRAVYLASVA 360

Qy 361 APPVAAGATCLSHSVAVVTASAAITGFTFSAQLIPLPYTLASLYHREKQVLPKVRGDTGG 420
Db 361 APPVAAGATCLSHSVAVVTASAAITGFTFSAQLIPLPYTLASLYHREKQVLPKVRGDTGG 420

Qy 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480
Db 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480

Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540

Qy 541 VVFDKSDLAKYSA 553

Db 541 VVFDKSDLAKYSA 553

RESULT 12
US-10-010-940-113
Sequence 113, Application US/10010940
Publication No. US20030088062A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang Yuqui
APPLICANT: Reed, Steven G.
APPLICANT: Kalos, Michael
APPLICANT: Fanger, Gary
APPLICANT: Retter, Mark
APPLICANT: Solk, John
APPLICANT: Day, Craig
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427D3
CURRENT APPLICATION NUMBER: US/10/010,940
CURRENT FILING DATE: 2001-12-05
NUMBER OF SEQ ID NOS: 575
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 113
LENGTH: 553
TYPE: PRT
ORGANISM: Homo sapien
US-10-010-940-113

Query Match 100.0%; Score 2861; DB 14; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLEVGVEEKFMVTLGIG 60
Db 1 MVQRLWSRLRHRKAQALLVNLITFGLEVCLAAGITVVPPLLEVGVEEKFMVTLGIG 60

Qy 61 PVGLVCVPLLGASDHWGRYGRRRPFIMWLSLIGILLSLFLIPRAGWLAGLLCPDRPL 120
Db 61 PVGLVCVPLLGASDHWGRYGRRRPFIMWLSLIGILLSLFLIPRAGWLAGLLCPDRPL 120

Qy 121 ELALLIIGVGLDFCGQVCFPLEALLSDLPDPDHCQAYSVYAFMISLGGCIGYLLPA 180
Db 121 ELALLIIGVGLDFCGQVCFPLEALLSDLPDPDHCQAYSVYAFMISLGGCIGYLLPA 180

Qy 181 IDWDTSAAPYLGTOEBCLFGLLTILFTCTVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Db 181 IDWDTSAAPYLGTOEBCLFGLLTILFTCTVAATLLVAEEAALGPTPEAGLSAPSLSPH 240

Qy 241 CCPCRARLAFRNLAGLLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300
Db 241 CCPCRARLAFRNLAGLLPRLHQLCCRMPTLRLRFLVAELCSWMALMTFTLYTDFVGEGL 300

Qy 301 YQGVPRAPGTEARRHYDEGRVMSGLGLFOCALISLVFSLVMDRLVORFGTRAVYLASVA 360
Db 301 YQGVPRAPGTEARRHYDEGRVMSGLGLFOCALISLVFSLVMDRLVORFGTRAVYLASVA 360

Qy 361 APPVAAGATCLSHSVAVVTASAAITGFTFSAQLIPLPYTLASLYHREKQVLPKVRGDTGG 420
Db 361 APPVAAGATCLSHSVAVVTASAAITGFTFSAQLIPLPYTLASLYHREKQVLPKVRGDTGG 420

Qy 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480
Db 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGPEPTA 480

Qy 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540
Db 481 RVVPRGICLDLAILDSAFLLSQVAPSLFMGSIIVQLSQSVTAYMVSAAGLGLVAIFYATQ 540

Qy 541 VFEDKSLAKYSA 553
 Db 541 VFEDKSLAKYSA 553

RESULT 13
 US-10-144-678A-113
 ; Sequence 113, Application US/10144678A
 ; Publication No. US20030157089A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Devin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedrick, Thomas S.
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Li, Samuel X.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A. W.
 ; APPLICANT: Hepler, William T.
 ; APPLICANT: Hural, John
 ; APPLICANT: McNeill, Patricia D.
 ; APPLICANT: Houghton, Raymond L.
 ; APPLICANT: Vinals y de Bassols, Carlota
 ; APPLICANT: Foy, Teresa M.
 ; APPLICANT: Watanabe, Yoshihiro
 ; APPLICANT: Deng, Ta
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; FILE REFERENCE: 210121.427C28
 ; CURRENT APPLICATION NUMBER: US/10/144,678A
 ; CURRENT FILING DATE: 2002-08-12
 ; NUMBER OF SEQ ID NOS: 1033
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 113
 ; LENGTH: 553
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-144-678A-113

Query Match 100.0%; Score 2861; DB 14; Length 553;
 Best Local Similarity 100.0%; Pred. No. 7.7e-240;
 Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLRHRKAQLLNLLTFGLEVCIAAGITVPPLLLLEVGVVEEKFMTMVLGIG 60
 Db 1 MVQRLWVSRLRHRKAQLLNLLTFGLEVCIAAGITVPPLLLLEVGVVEEKFMTMVLGIG 60

Qy 61 PVLGVCVPLIGSADHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120
 Db 61 PVLGVCVPLIGSADHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120

Qy 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDCHRCQAYSVAFMISLGGCLGYLLPA 180
 Db 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDCHRCQAYSVAFMISLGGCLGYLLPA 180

Qy 181 IDWTSALAPYLGTQECLFGLLTILFTCVAAATLLVAEEAALGTEPAEGLSAPLSPH 240
 Db 181 IDWTSALAPYLGTQECLFGLLTILFTCVAAATLLVAEEAALGTEPAEGLSAPLSPH 240

Qy 241 CCPCRLAFRNILGALLPRHLQCCMRPTRLRRLFVAELCSWMAALMTFTLFTDFVGEGL 300
 Db 241 CCPCRLAFRNILGALLPRHLQCCMRPTRLRRLFVAELCSWMAALMTFTLFTDFVGEGL 300

Qy 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFGRTRAVYLASVA 360
 Db 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFGRTRAVYLASVA 360

Qy 361 AFPVAAGATCLSHSVAVVTASAALTGTFTFSAQLPYTLASLYHREKQVFLPKYRGDTGG 420
 Db 361 AFPVAAGATCLSHSVAVVTASAALTGTFTFSAQLPYTLASLYHREKQVFLPKYRGDTGG 420

Db 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFGRTRAVYLASVA 360
 Qy 361 AFPVAAGATCLSHSVAVVTASAALTGTFTFSAQLPYTLASLYHREKQVFLPKYRGDTGG 420
 Db 361 AFPVAAGATCLSHSVAVVTASAALTGTFTFSAQLPYTLASLYHREKQVFLPKYRGDTGG 420
 Qy 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTFA 480
 Db 421 ASSEDSLMTSFLPGPKGAPFPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTFA 480
 Qy 481 RVVPGRCICLDLAIDLDSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
 Db 481 RVVPGRCICLDLAIDLDSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
 Qy 541 VFEDKSLAKYSA 553
 Db 541 VFEDKSLAKYSA 553

RESULT 14
 US-10-005-907-13
 ; Sequence 13, Application US/10005907
 ; Publication No. US20030166881A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Union Chimique Belge, S. A.
 ; APPLICANT: No. US20030166881A1Alka, Karl
 ; APPLICANT: Pirozzi, Gregory
 ; APPLICANT: Einstein, Richard
 ; TITLE OF INVENTION: NOVEL GENES ASSOCIATED WITH ALLERGIC HYPERSENSITIVITY AND MAST CE
 ; FILE REFERENCE: 053529-5005
 ; CURRENT APPLICATION NUMBER: US/10/005,907
 ; CURRENT FILING DATE: 2001-12-07
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 13
 ; LENGTH: 553
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-005-907-13

Query Match 100.0%; Score 2861; DB 14; Length 553;
 Best Local Similarity 100.0%; Pred. No. 7.7e-240;
 Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLRHRKAQLLNLLTFGLEVCIAAGITVPPLLLLEVGVVEEKFMTMVLGIG 60
 Db 1 MVQRLWVSRLRHRKAQLLNLLTFGLEVCIAAGITVPPLLLLEVGVVEEKFMTMVLGIG 60

Qy 61 PVLGVCVPLIGSADHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120
 Db 61 PVLGVCVPLIGSADHWGRYGRRRPFIWALSIGILLSLFLIPRAGWLAGLCCDPDRPL 120

Qy 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDCHRCQAYSVAFMISLGGCLGYLLPA 180
 Db 121 ELALLILGVGLDFCGQVCFPLEALLSDLPDPDCHRCQAYSVAFMISLGGCLGYLLPA 180

Qy 181 IDWTSALAPYLGTQECLFGLLTILFTCVAAATLLVAEEAALGTEPAEGLSAPLSPH 240
 Db 181 IDWTSALAPYLGTQECLFGLLTILFTCVAAATLLVAEEAALGTEPAEGLSAPLSPH 240

Qy 241 CCPCRLAFRNILGALLPRHLQCCMRPTRLRRLFVAELCSWMAALMTFTLFTDFVGEGL 300
 Db 241 CCPCRLAFRNILGALLPRHLQCCMRPTRLRRLFVAELCSWMAALMTFTLFTDFVGEGL 300

Qy 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFGRTRAVYLASVA 360
 Db 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFGRTRAVYLASVA 360

Qy 361 AFPVAAGATCLSHSVAVVTASAALTGTFTFSAQLPYTLASLYHREKQVFLPKYRGDTGG 420
 Db 361 AFPVAAGATCLSHSVAVVTASAALTGTFTFSAQLPYTLASLYHREKQVFLPKYRGDTGG 420

Qy 421 ASSEDSMTSLFPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db |||||
Qy 421 ASSEDSMTSLFPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db |||||
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
Db |||||
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
Db |||||
Qy 541 VVFDKSDLAKYSA 553
Db |||||
Qy 541 VVFDKSDLAKYSA 553
Db |||||

RESULT 15

US-10-294-025-113
; Sequence 113, Application US/10294025
; Publication No. US20030185930A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Kalos, Michael D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C29
; CURRENT APPLICATION NUMBER: US/10/294.025
; CURRENT FILING DATE: 2002-11-12
; NUMBER OF SEQ ID NOS: 1038
; SOFTWARE: RastSEQ for Windows Version 3.0
; SEQ ID NO 113
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-294-025-113

Query Match 100.0%; Score 2861; DB 14; Length 553;
Best Local Similarity 100.0%; Pred. No. 7.7e-240;
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVQRLWVSRLLRHKAQLLVNLTLFGLVCLAAAGITVPPLLLEVGVEEKFTMTVLGIG 60
Db |||||
Qy 1 MVQRLWVSRLLRHKAQLLVNLTLFGLVCLAAAGITVPPLLLEVGVEEKFTMTVLGIG 60
Db |||||
Qy 61 PVLGLVCVPLIGSASDHWGRYGRRRPFIWALSGLILLSLFLIPRAGWLAGLLCPDPRPL 120
Db |||||
Qy 61 PVLGLVCVPLIGSASDHWGRYGRRRPFIWALSGLILLSLFLIPRAGWLAGLLCPDPRPL 120
Db |||||
Qy 121 ELALLILGVGLLDFCGQVCFPTLEALLSDLPDRPDHCRQAYSVYAFMISLGGCLGYLLPA 180
Db |||||
Qy 121 ELALLILGVGLLDFCGQVCFPTLEALLSDLPDRPDHCRQAYSVYAFMISLGGCLGYLLPA 180
Db |||||
Qy 181 IDWDTSAALPYLGTQEECLFGLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Db |||||
Qy 181 IDWDTSAALPYLGTQEECLFGLTLIFLTCVAATLLVAEEAALGPTPEAGLSAPSLSPH 240
Db |||||
Qy 241 CCPCRARLAFRNGLALLPRLHQLCCRMPTLRRLLFVAELCSWMALMTFTLYTDFVGEGL 300
Db |||||
Qy 241 CCPCRARLAFRNGLALLPRLHQLCCRMPTLRRLLFVAELCSWMALMTFTLYTDFVGEGL 300
Db |||||
Qy 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFQTRAVYLASVA 360
Db |||||
Qy 301 YQGVPRAPGTEARRHYDEGVGMGSLGLFLQCAISLVFSLVMDRLVQRFQTRAVYLASVA 360
Db |||||
Qy 361 APPVAAGATCLSHSVAVVTASAAATGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db |||||
Qy 361 APPVAAGATCLSHSVAVVTASAAATGFTFSALQILPYTLASLYHREKQVFLPKYRGDTGG 420
Db |||||
Qy 421 ASSEDSMTSLFPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db |||||
Qy 421 ASSEDSMTSLFPGPKGAPPNGHVAGGSGLLPPPPALCGASACDVSVRVVVGEPTEA 480
Db |||||
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
Db |||||
Qy 481 RVVPRGICLDLALDLSAFLLSQVAPSLFMGSIVOLQSQSVTAYMVSAAGLGLVAIYFATQ 540
Db |||||

Qy 541 VVFDKSDLAKYSA 553
Db |||||
Qy 541 VVFDKSDLAKYSA 553
Db |||||

Search completed: June 16, 2005, 13:30:10
Job time : 161 secs

This Page Blank (uspto)

Db 2221 ATGCACCTGGAATGGGGGACTCTGACGGTGAATACCCAGGCTCAGGGTTAACAGCTAGC 2280
Qy |||||||
Db 2281 CTCCTAGTTGAGACACACTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Qy |||||||
Db 2281 CTCCTAGTTGAGACACACTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Qy |||||||
Db 2341 GTTTCCCATCTTAAGCCCTTAACTGCAGCTTCGTTTAAATGATGAGCTTTGTCATGGAG 2400
Qy |||||||
Db 2341 GTTTCCCATCTTAAGCCCTTAACTGCAGCTTCGTTTAAATGATGAGCTTTGTCATGGAG 2400
Qy |||||||
Db 2401 TTCTAGATGAACACTCTCCATGGATTTGAACATATGACATTTATTTAGGGGAAGA 2460
Qy |||||||
Db 2401 TTCTAGATGAACACTCTCCATGGATTTGAACATATGACATTTATTTAGGGGAAGA 2460
Qy |||||||
Db 2461 GTCTGAGGGGCAACACAGAAGACCAGGTCCTCAGCCACAGCACTGCTTTTTGCT 2520
Qy |||||||
Db 2461 GTCTGAGGGGCAACACAGAAGACCAGGTCCTCAGCCACAGCACTGCTTTTTGCT 2520
Qy |||||||
Db 2521 GATCCACCCCTCTTACCTTTTATCAGAGTGTGGCCTGTGGTCTTCTGTGTCATCA 2580
Qy |||||||
Db 2521 GATCCACCCCTCTTACCTTTTATCAGAGTGTGGCCTGTGGTCTTCTGTGTCATCA 2580
Qy |||||||
Db 2581 CAGAGACACAGGCATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGAATCCAT 2640
Qy |||||||
Db 2581 CAGAGACACAGGCATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGAATCCAT 2640
Qy |||||||
Db 2641 TGCTAGCTTTCTGTGTGGTCTTAATATTTGGTAGGGTGGGGATCCCCACACATCA 2700
Qy |||||||
Db 2641 TGCTAGCTTTCTGTGTGGTCTTAATATTTGGTAGGGTGGGGATCCCCACACATCA 2700
Qy |||||||
Db 2701 GGTCCCTGATAGTAGCTGTCATTTGGGCTGATCATTTGCCAGAACTCTTCTCTCGGGGT 2760
Qy |||||||
Db 2701 GGTCCCTGATAGTAGCTGTCATTTGGGCTGATCATTTGCCAGAACTCTTCTCTCGGGGT 2760
Qy |||||||
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGAGCTTGAATAATTTCTACTATCCCAATGATAAT 2820
Qy |||||||
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGAGCTTGAATAATTTCTACTATCCCAATGATAAT 2820
Qy |||||||
Db 2821 TCCAAATGCTTTTACCAAGTGTAGGTGTTTGAAGGAAGGTAGAGGTGGGGCTTCAGGT 2880
Qy |||||||
Db 2821 TCCAAATGCTTTTACCAAGTGTAGGTGTTTGAAGGAAGGTAGAGGTGGGGCTTCAGGT 2880
Qy |||||||
Db 2881 CTCAAGGCTTCCCTAACACCCCTCTTCTCTGGCCAGCTGCTGTTCCGCCACTTCCA 2940
Qy |||||||
Db 2881 CTCAAGGCTTCCCTAACACCCCTCTTCTCTGGCCAGCTGCTGTTCCGCCACTTCCA 2940
Qy |||||||
Db 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCCAAATTTCCCTTACC 3000
Qy |||||||
Db 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCCAAATTTCCCTTACC 3000
Qy |||||||
Db 3001 CCCAACTTCCCTTACCCCAACTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3060
Qy |||||||
Db 3001 CCCAACTTCCCTTACCCCAACTTTCCCAAGCTTCCCAAGCTTCCCAAGCTTCCCAAGCT 3060
Qy |||||||
Db 3061 GCAGGACAGAGACAAAGTGGGTTTCCCAAGCTTTCCTACTCTCAGCCCCCAGAGT 3120
Qy |||||||
Db 3061 GCAGGACAGAGACAAAGTGGGTTTCCCAAGCTTTCCTACTCTCAGCCCCCAGAGT 3120
Qy |||||||
Db 3121 ATATCTGTGTTGGGAATCTCACAGAACTCAGAGCAACCCCTGCTGAGCTAAGG 3180
Qy |||||||
Db 3121 ATATCTGTGTTGGGAATCTCACAGAACTCAGAGCAACCCCTGCTGAGCTAAGG 3180
Qy |||||||
Db 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTCCGTTTGCATATGCTTATTTATT 3240
Qy |||||||
Db 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTCCGTTTGCATATGCTTATTTATT 3240
Qy |||||||
Db 3241 TAGCGGGGTGAATTTTATCTGTAAGTAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy |||||||
Db 3241 TAGCGGGGTGAATTTTATCTGTAAGTAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy |||||||
Db 3301 AAATTAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Qy |||||||

Db 3301 AATAAAGGCTTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Qy |||||||
Db 3361 AA 3410
Qy |||||||
Db 3361 AA 3410
Qy |||||||
RESULT 2
US-09-607-110
US-09-030-110, Application US/09030607
Patent No. 6262245
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
NUMBER OF SEQUENCES: 224
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatenIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/09/030, 607
APPLICATION NUMBER: US/09/030, 607
FILING DATE: 25-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.427C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:
LENGTH: 3410 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-030-607-110
Query Match 100.0%; Score 3410; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGAAACAGCTCTGACGCGCTGCTCGGGTGACAGCCGCGGCTCGCGCAGGATCTGA 60
Db 1 GGGAAACAGCTCTGACGCGCTGCTCGGGTGACAGCCGCGGCTCGCGCAGGATCTGA 60
Qy 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCCACACAGCAGCAGGTGTTGAGCATGGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCCACACAGCAGCAGGTGTTGAGCATGGGCTGAG 120
Qy 121 AAGCTGACCGGACCAAAAGGGCTGGCAGAAATGGGGCTGCTGATTTCTAGGCAAGTT 180
Db 121 AAGCTGACCGGACCAAAAGGGCTGGCAGAAATGGGGCTGCTGATTTCTAGGCAAGTT 180
Qy 181 GCGGCGCAGCAGGAGGAGAGCGCCGAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG 240
Db 181 GCGGCGCAGCAGGAGGAGAGCGCCGAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG 240
Qy 241 GAGTGCCTGAACCGGCCCCCTGAGCCCTACCGGCTGAGCCCTATGCTCCAGAGGCTGTG 300
Db 241 GAGTGCCTGAACCGGCCCCCTGAGCCCTACCGGCTGAGCCCTATGCTCCAGAGGCTGTG 300

Db 721 ||||| GCTCTGACCTCTTCCGGGACCCGGACCACTGTGCCAGGCTACTGTCTATGCGCTT 780
Qy 781 CATGATCAGTCTTGGGGGCTGCTGGGCTACTCTGCTGCTGCCATTGACTGGGACACCG 840
Db 781 ||||| CATGATCAGTCTTGGGGGCTGCTGGGCTACTCTGCTGCTGCCATTGACTGGGACACCG 840
Qy 841 TGCCCTGGCCCTTACTCTGGGACCCAGGAGGAGTGCCCTCTTTGGCTGCTGCTCACCCCTCAT 900
Db 841 TGCCCTGGCCCTTACTCTGGGACCCAGGAGGAGTGCCCTCTTTGGCTGCTGCTCACCCCTCAT 900
Qy 901 CTTCCTCAGTCTGCTAGCAGCACA CTGCTGGTGGCTGAGAGGAGCGCTGGGCCCCAC 960
Db 901 CTTCCTCAGTCTGCTAGCAGCACA CTGCTGGTGGCTGAGAGGAGCGCTGGGCCCCAC 960
Qy 961 CGAGCCAGCAGAGGCTGTGGGCCCCCTCTGTGCGCCCCACCTGCTGCTCATGCGGGC 1020
Db 961 CGAGCCAGCAGAGGCTGTGGGCCCCCTCTGTGCGCCCCACCTGCTGCTCATGCGGGC 1020
Qy 1021 CCGCTTGGCTTTCCGGAACTTGGGCGCCCTGTCTTCCCGGCTGCAACAGCTGTGTGCGG 1080
Db 1021 CCGCTTGGCTTTCCGGAACTTGGGCGCCCTGTCTTCCCGGCTGCAACAGCTGTGTGCGG 1080
Qy 1081 CATGCCCGCACCTCTGCGCGGCTCTTCTGGCTGAGCTGTGCACTGGATGGCACTCAT 1140
Db 1081 CATGCCCGCACCTCTGCGCGGCTCTTCTGGCTGAGCTGTGCACTGGATGGCACTCAT 1140
Qy 1141 GACCTTCACGCTGTTTACAGGATTTCTGGGGGAGGGGCTGTACCAGGGCGTGGCCAG 1200
Db 1141 GACCTTCACGCTGTTTACAGGATTTCTGGGGGAGGGGCTGTACCAGGGCGTGGCCAG 1200
Qy 1201 AGCTGAGCGGGCACCGAGGCGCGGAGACACTATGATGAAGCGCTTCCGATGGGCGAGCT 1260
Db 1201 AGCTGAGCGGGCACCGAGGCGCGGAGACACTATGATGAAGCGCTTCCGATGGGCGAGCT 1260
Qy 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGCTCATGAGACCGGCTGGT 1320
Db 1261 GGGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGCTCATGAGACCGGCTGGT 1320
Qy 1321 CGAGGATTCGGCACTCCGACAGTCTATTGBCAGTGTGCGAGCTTTCCTGCTGCTGCTGCTG 1380
Db 1321 CGAGGATTCGGCACTCCGACAGTCTATTGBCAGTGTGCGAGCTTTCCTGCTGCTGCTGCTG 1380
Qy 1381 CCGTGCCACATGCTCTCCACAGTGTGGCGGTGTGACAGCTTTCAGCGCGCTCACCGG 1440
Db 1381 CCGTGCCACATGCTCTCCACAGTGTGGCGGTGTGACAGCTTTCAGCGCGCTCACCGG 1440
Qy 1441 GTTCACTTCTAGCCCTGCGAGTCTGCGCCCTACACACTGGGCTCCCTCTACGACCGGGA 1500
Db 1441 GTTCACTTCTAGCCCTGCGAGTCTGCGCCCTACACACTGGGCTCCCTCTACGACCGGGA 1500
Qy 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACAG 1560
Db 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACAG 1560
Qy 1561 CCTGATGACAGCTTCTGCGCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTAATGAGCACAGT 1620
Db 1561 CCTGATGACAGCTTCTGCGCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTAATGAGCACAGT 1620
Qy 1621 GGGTGTGGAGGAGTGGCTCTGCGACCGCCCTGCTGCGGCGCTCTGCGGCGCTCTGCGCTG 1680
Db 1621 GGGTGTGGAGGAGTGGCTCTGCGACCGCCCTGCTGCGGCGCTCTGCGGCGCTCTGCGCTG 1680
Qy 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCGAGGCTGCTGCGGCGCG 1740
Db 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCGAGGCTGCTGCGGCGCG 1740
Qy 1741 GGGCATCTGCTGCACTCGCCATCTCTGGATAGTGCCTTCTGCTGCTCCAGGCTGGCCCC 1800
Db 1741 GGGCATCTGCTGCACTCGCCATCTCTGGATAGTGCCTTCTGCTGCTCCAGGCTGGCCCC 1800
Qy 1801 ATCCCTGTTTATGGGCTCCATGTCCAGCTCAGCCAGTCTGCTCACTGCCTATATGGTGTG 1860

Db 1801 ATCCCTGTTTATGGGCTCCATTTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGGTGTG 1860
Qy 1861 TGCCGAGGCTGGTCTGTGGTGGCATTTACTTTGTACACAGGTAGTATTTTGACAAGAG 1920
Db 1861 TGCCGAGGCTGGTCTGTGGTGGCATTTACTTTGTACACAGGTAGTATTTTGACAAGAG 1920
Qy 1921 CGACTTGGCCAAATACTCAGCGTAGAAAACCTTCCAGCACATTTGGGGTGGAGGGCTGCT 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAACCTTCCAGCACATTTGGGGTGGAGGGCTGCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCTGTGTAGCCCCCATGGGGTGCCTGGGCTGGCGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCTGTGTAGCCCCCATGGGGTGCCTGGGCTGGCGCCAGT 2040
Qy 2041 TTCTGTTGCTGCCAAAAGTAAATGTGGCTCTGTGTGCCACCCCTGTGTGTGAGGTGGCTA 2100
Db 2041 TTCTGTTGCTGCCAAAAGTAAATGTGGCTCTGTGTGCCACCCCTGTGTGTGAGGTGGCTA 2100
Qy 2101 GCTGCACAGCTGGGGGCTGGGGCTGCTCTCTCTCTCTCCCCAGTCTCTAGGGCTGCTG 2160
Db 2101 GCTGCACAGCTGGGGGCTGGGGCTGCTCTCTCTCTCTCCCCAGTCTCTAGGGCTGCTG 2160
Qy 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Qy 2221 ATGCACCTGGGAATGGGGGACTCTGCAGGTGATTTACCCAGGCTCAGGGTTAAACAGTAGC 2280
Db 2221 ATGCACCTGGGAATGGGGGACTCTGCAGGTGATTTACCCAGGCTCAGGGTTAAACAGTAGC 2280
Qy 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAATCACTCAGTCACTG 2340
Db 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAATCACTCAGTCACTG 2340
Qy 2341 GTTTCCTCATCTTAAGCCCTTAACTGAGCTTGTGTTTAAATGATGCTCTTGTGATGGAG 2400
Db 2341 GTTTCCTCATCTTAAGCCCTTAACTGAGCTTGTGTTTAAATGATGCTCTTGTGATGGAG 2400
Qy 2401 TTTCTAGGATGAACACTCTCTCATGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Db 2401 TTTCTAGGATGAACACTCTCTCATGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAGAACCCAGTCCCTCAGGCCACAGCACTGTCTTTTGTCT 2520
Db 2461 GTCTGAGGGGCAACACACAGAACCCAGTCCCTCAGGCCACAGCACTGTCTTTTGTCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGCTGCTTCTGTTGCCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGCTGCTTCTGTTGCCATCA 2580
Qy 2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGGAATCCAT 2640
Db 2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGTGCTAATA TTTGGGTAGGGTGGGGATFCCCAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGTGCTAATA TTTGGGTAGGGTGGGGATFCCCAACAATCA 2700
Qy 2701 GGTCCCCCTGAGTAGCTGGTCAATTGGGCTGATTCATTCGCCAGAACTTCTTCTCTGGGGT 2760
Db 2701 GGTCCCCCTGAGTAGCTGGTCAATTGGGCTGATTCATTCGCCAGAACTTCTTCTCTGGGGT 2760
Qy 2761 CTGCCCCCCCCAAATGCTTAAACCCAGGACCTTTGGAATTTCTACTCATCCCCAAATGATAAT 2820
Db 2761 CTGCCCCCCCCAAATGCTTAAACCCAGGACCTTTGGAATTTCTACTCATCCCCAAATGATAAT 2820
Qy 2821 TCCAAATGCTGTTACCCAAAGGTTAGGGTGTGAAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTTACCCAAAGGTTAGGGTGTGAAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAACGGCTTCCCTAACCAACCCCTCTTCTTCTGGCCAGGCTGTGCTTCCCCCTTCCA 2940
Db 2881 CTCAACGGCTTCCCTAACCAACCCCTCTTCTTCTTGGCCAGGCTGTGCTTCCCCCTTCCA 2940

```
Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACCTGCCCAAAATTTCCCTACC 3000
Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACCTGCCCAAAATTTCCCTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCCCTGTTGGAGTACT 3060
Db 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCCCTGTTGGAGTACT 3060
Qy 3061 GCAGGACAGAAAGCAGAAAGTCCGCTTTCCCAAGCCTTTGTCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGGACAGAAAGCAGAAAGTCCGCTTTCCCAAGCCTTTGTCATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTGTTGGGAACTCTCACAGAAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGTTGGGAACTCTCACAGAAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180
Qy 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTCCGCTTTGCAATAATGTCGTTATTATT 3240
Db 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTCCGCTTTGCAATAATGTCGTTATTATT 3240
Qy 3241 TAGCGGGGTGAATATTTATATCTTAAGTCCGCTTTGCAATAATGTCGTTATTATT 3300
Db 3241 TAGCGGGGTGAATATTTATATCTTAAGTCCGCTTTGCAATAATGTCGTTATTATT 3300
Qy 3301 AAATTTAAAGGCTTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTTAAAGGCTTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
```

RESULT 4

```
US-09-352-616A-110
; Sequence 110, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352.616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110
```

```
Query Match 100.0%; Score 3410; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGAAACCAAGCCTGCACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACCAAGCCTGCACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Qy 61 GTGATGAGACGTGTCCCACTAGAGTGCACAGCAGCAGAGTGTGAGCATGGGCTGAG 120
Db 61 GTGATGAGACGTGTCCCACTAGAGTGCACAGCAGCAGAGTGTGAGCATGGGCTGAG 120
Qy 121 AAGCTGACCGGACCAAGAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180
Db 121 AAGCTGACCGGACCAAGAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAGTT 180
```

```
Qy 181 GGGCGCAGCAAGGAGGAGGCGCGCAGCTTCTGAGCAGAGCCGAGACGAGCTTCTG 240
Db 181 GGGCGCAGCAAGGAGGAGGCGCGCAGCTTCTGAGCAGAGCCGAGACGAGCTTCTG 240
Qy 241 GAGTGCTGAAACGGCCCCCTGAGGCTTACCGGCTTGGCCCACTATATGTCAGAGGCTGTG 300
Db 241 GAGTGCTGAAACGGCCCCCTGAGGCTTACCGGCTTGGCCCACTATATGTCAGAGGCTGTG 300
Qy 301 GGTGAGCGCGCTGCTGCGGCACCGGAAAGCCAGCTTCTGCTGTCGAACCTGCTAACCTT 360
Db 301 GGTGAGCGCGCTGCTGCGGCACCGGAAAGCCAGCTTCTGCTGTCGAACCTGCTAACCTT 360
Qy 361 TGGCTGGAGGTGTGTTGGCCGAGGCATCACCTATGTGCGGCTCTGCTGCTGGAAGT 420
Db 361 TGGCTGGAGGTGTGTTGGCCGAGGCATCACCTATGTGCGGCTCTGCTGCTGGAAGT 420
Qy 421 GGGGGTAGAGGAGAAGTTTATGACCATGTGTGCTGGGCAATTTGGTCCAGTGTGGGCTTGGT 480
Db 421 GGGGGTAGAGGAGAAGTTTATGACCATGTGTGCTGGGCAATTTGGTCCAGTGTGGGCTTGGT 480
Qy 481 CTGTGTCGCGCTCCTTAGGCTCAGCAGTACCACTGCGCTGGAGGCTATGGCCGCGCGCG 540
Db 481 CTGTGTCGCGCTCCTTAGGCTCAGCAGTACCACTGCGCTGGAGGCTATGGCCGCGCGCG 540
Qy 541 GCCCTTCATCTGGGCACTGTCTTGGGCACTCTGCTGAGGCTCTTTCTCATCCCAAGGCG 600
Db 541 GCCCTTCATCTGGGCACTGTCTTGGGCACTCTGCTGAGGCTCTTTCTCATCCCAAGGCG 600
Qy 601 CGGCTGTGCTAGCAGGCTGTGCTGCGCGGATCCAGGCCCCCTGGAGCTGGGCACTGTGCTAT 660
Db 601 CGGCTGTGCTAGCAGGCTGTGCTGCGCGGATCCAGGCCCCCTGGAGCTGGGCACTGTGCTAT 660
Qy 661 CTTGGGCGTGGGCTGCTGAGCTTCTGTGGCAGAGTGTGCTTCACTCCATCGGAGGCGCT 720
Db 661 CTTGGGCGTGGGCTGCTGAGCTTCTGTGGCAGAGTGTGCTTCACTCCATCGGAGGCGCT 720
Qy 721 GCTCTCTGACCTCTTCCGGGACCCGACCACTGTGCGCAGGCGCTTACTGTCTATGCTT 780
Db 721 GCTCTCTGACCTCTTCCGGGACCCGACCACTGTGCGCAGGCGCTTACTGTCTATGCTT 780
Qy 781 CATGATCAGTCTTGGGCGCTGCTGCGCTACCTCTCTGCTGCCATTTGACTGGGACACAG 840
Db 781 CATGATCAGTCTTGGGCGCTGCTGCGCTACCTCTCTGCTGCCATTTGACTGGGACACAG 840
Qy 841 TGCCCTGGCCCCCTACTCTGGGACCCAGAGGAGTGCCTCTTGGGCTGTCTCACTCAT 900
Db 841 TGCCCTGGCCCCCTACTCTGGGACCCAGAGGAGTGCCTCTTGGGCTGTCTCACTCAT 900
Qy 901 CTTTCTCACCTGCTAGCAGCCACACTGTGCTGGTGGCTGAGGAGGAGGAGGAGGAGGAGG 960
Db 901 CTTTCTCACCTGCTAGCAGCCACACTGTGCTGGTGGCTGAGGAGGAGGAGGAGGAGGAGG 960
Qy 961 CGAGCAGCAGAAAGGCTGTGCGGCGCGCTCTTGTGCGGCCCTGCTGCTGCTGCTGCGGCG 1020
Db 961 CGAGCAGCAGAAAGGCTGTGCGGCGCGCTCTTGTGCGGCCCTGCTGCTGCTGCTGCGGCG 1020
Qy 1021 CGGCTTGGCTTTCCGGAACCTGGGCGCGCTTCCCGGCTGCAACAGCTGTGCTGCGCG 1080
Db 1021 CGGCTTGGCTTTCCGGAACCTGGGCGCGCTTCCCGGCTGCAACAGCTGTGCTGCGCG 1080
Qy 1081 CATGCCCGCACCTGCGCGCGCTCTTCTGCTGGCTGAGCTGTGAGCTGGATGGGAGTGGAGT 1140
Db 1081 CATGCCCGCACCTGCGCGCGCTCTTCTGCTGGCTGAGCTGTGAGCTGGATGGGAGTGGAGT 1140
Qy 1141 GACCTTCACGCTGTTTTTACAGGATTTGTTGGGCGAGGAGGCTGTACAGGGGCTGCCAG 1200
Db 1141 GACCTTCACGCTGTTTTTACAGGATTTGTTGGGCGAGGAGGCTGTACAGGGGCTGCCAG 1200
Qy 1201 AGCTGACCGGCGCACCGAGCCCGGAGACATATGATGAAGGCTTCCGATGGGAGGCT 1260
Db 1201 AGCTGACCGGCGCACCGAGCCCGGAGACATATGATGAAGGCTTCCGATGGGAGGCT 1260
Qy 1261 GGGGCTGTTCTCTGAGTGGGCCATCTCCCTGGTCTTCTCTCTGCTCATGAGCCGGCTGGT 1320
```



```
; Sequence 100, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun C.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602,877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-602-877A-100

Query Match 100.0%; Score 3410; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACGAGCTGACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACGAGCTGACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60

Qy 61 GTGATGAGAGCTGTCGCCACTGAGGTGCCACAGCAGCAGGTTTGAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGTCGCCACTGAGGTGCCACAGCAGCAGGTTTGAGCATGGCTGAG 120

Qy 121 AAGCTGACCGGACCAAGAGGCTGGCAGAAATGGCGCGCTGATTCCTAGGCAAGTT 180
Db 121 AAGCTGACCGGACCAAGAGGCTGGCAGAAATGGCGCGCTGATTCCTAGGCAAGTT 180

Qy 181 GGGCGCAGCAGAGGAGGAGGCGCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
Db 181 GGGCGCAGCAGAGGAGGAGGCGCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240

Qy 241 GAGTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300
Db 241 GAGTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300

Qy 301 GGTGAGCGCGCTGCTGGGACACCGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
Db 301 GGTGAGCGCGCTGCTGGGACACCGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360

Qy 361 TGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420
Db 361 TGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420

Qy 421 GGGGGTAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480
Db 421 GGGGGTAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 480

Qy 481 CTGTGCTCCGCTCCTAGGCTCAGCAGTACGAGTACGAGTACGAGTACGAGTACGAG 540
Db 481 CTGTGCTCCGCTCCTAGGCTCAGCAGTACGAGTACGAGTACGAGTACGAGTACGAG 540

Qy 541 GCCCTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGGCTCTTTCTCATCCCAAGGC 600
Db 541 GCCCTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGGCTCTTTCTCATCCCAAGGC 600

Qy 601 CGGCTGAGTACGAGGCTGCTGTCGCCGATCCAGGCGCTGAGCTGAGCTGAGCTCAT 660
Db 601 CGGCTGAGTACGAGGCTGCTGTCGCCGATCCAGGCGCTGAGCTGAGCTGAGCTCAT 660

Qy 661 CCTGGGCTGAGGCTGCTGAGCTTCTGTGGCAGGTGCTTCACTCCACTGAGGCGCT 720
Db 661 CCTGGGCTGAGGCTGCTGAGCTTCTGTGGCAGGTGCTTCACTCCACTGAGGCGCT 720

Qy 721 GCTCTGACCTTCCGGGACCGGACCACTGTGCGCAGGCTACTCTGTCTATGCTT 780
Db 721 GCTCTGACCTTCCGGGACCGGACCACTGTGCGCAGGCTACTCTGTCTATGCTT 780
```



```
QY 1861 TGCCGAGGCGCTGGTCTGGTGGCAATTTACTTTGCTACAGAGTAGTATTTGACAAG 1920
Db |||||
QY 1861 TGCCGAGGCGCTGGTCTGGTGGCAATTTACTTTGCTACAGAGTAGTATTTGACAAG 1920
Db |||||
QY 1921 CGACTTGGCCAAATACTCAGGCTAGAAAATTTCCAGCAATTTGGGGTGGAGGCGCTGCCT 1980
Db |||||
QY 1921 CGACTTGGCCAAATACTCAGGCTAGAAAATTTCCAGCAATTTGGGGTGGAGGCGCTGCCT 1980
Db |||||
QY 1981 CACTGGGTCCAGCTCCCGCTCCGTGTTAGCCCATGSGGCTGCCGGGCTGGCCGCGCAGT 2040
Db |||||
QY 1981 CACTGGGTCCAGCTCCCGCTCCGTGTTAGCCCATGSGGCTGCCGGGCTGGCCGCGCAGT 2040
Db |||||
QY 2041 TTCTGTGCTGCAAAAGTAATGTGCTCTCTGCTGCCACCCCTGTGCTCTCAGGTGGCTA 2100
Db |||||
QY 2101 GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db |||||
QY 2101 GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db |||||
QY 2161 ACTGAGGCGCTTCCAAAGGGGTTTCAGTCTGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Db |||||
QY 2161 ACTGAGGCGCTTCCAAAGGGGTTTCAGTCTGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Db |||||
QY 2221 ATGCACTGGAATGCGGGGACTCTGAGGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Db |||||
QY 2221 ATGCACTGGAATGCGGGGACTCTGAGGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC 2280
Db |||||
QY 2281 CTCCTAGTTGAGACACACTAGAGAGGGTTTTGGGAGCTGGAATAAATCAGTCACTCTG 2340
Db |||||
QY 2281 CTCCTAGTTGAGACACACTAGAGAGGGTTTTGGGAGCTGGAATAAATCAGTCACTCTG 2340
Db |||||
QY 2341 GTTTCCTCATCTAGAGCCCTTAACCTGAGCTGCTTTAATGTAGCTCTTGCATGGGAG 2400
Db |||||
QY 2341 GTTTCCTCATCTAGAGCCCTTAACCTGAGCTGCTTTAATGTAGCTCTTGCATGGGAG 2400
Db |||||
QY 2401 TTTCTAGGATGAAACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAGA 2460
Db |||||
QY 2401 TTTCTAGGATGAAACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGGAGA 2460
Db |||||
QY 2461 GTCTGAGGGGACACACAGAACCCAGTCCCTCAGCCACACAGCACTGCTTTTGCT 2520
Db |||||
QY 2461 GTCTGAGGGGACACACAGAACCCAGTCCCTCAGCCACACAGCACTGCTTTTGCT 2520
Db |||||
QY 2521 GATCCACCCCTCTTACCTTTATCAGGATGGGCTGTTGGTCTCTCTGTCGCAATCA 2580
Db |||||
QY 2521 GATCCACCCCTCTTACCTTTATCAGGATGGGCTGTTGGTCTCTCTGTCGCAATCA 2580
Db |||||
QY 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGGAATCCAT 2640
Db |||||
QY 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAGGGGAATCCAT 2640
Db |||||
QY 2641 TGCTAGCTTTTCTGTGTTGGTCTTAATATTTGGTAGGGTGGGGATCCCCAAATCA 2700
Db |||||
QY 2641 TGCTAGCTTTTCTGTGTTGGTCTTAATATTTGGTAGGGTGGGGATCCCCAAATCA 2700
Db |||||
QY 2701 GGTCCCTGAGATAGCTGCTCATTTGGGCTGATCATTTGCCAATCTTCTCTCTGGGGT 2760
Db |||||
QY 2701 GGTCCCTGAGATAGCTGCTCATTTGGGCTGATCATTTGCCAATCTTCTCTCTGGGGT 2760
Db |||||
QY 2761 CTGGCCCCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2820
Db |||||
QY 2761 CTGGCCCCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2820
Db |||||
QY 2821 TCCAAATCTGTTTACCAAGGTTAGGTGTTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db |||||
QY 2821 TCCAAATCTGTTTACCAAGGTTAGGTGTTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db |||||
QY 2881 CTCAGGCGCTTCCCTTAACACCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2940
Db |||||
QY 2881 CTCAGGCGCTTCCCTTAACACCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2940
Db |||||
```

```
QY 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db |||||
QY 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db |||||
QY 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCCCTGTTTGGAGCTACT 3060
Db |||||
QY 3001 CCCAACTTTCCCTTACCCCAACTTTCCCAACAGCTCCCAACCCCTGTTTGGAGCTACT 3060
Db |||||
QY 3061 GCAGGACAGAGCAAAAGTGGGTTTCCCAAGCCTTTGTCATCTCAGCCCCCAGAGT 3120
Db |||||
QY 3061 GCAGGACAGAGCAAAAGTGGGTTTCCCAAGCCTTTGTCATCTCAGCCCCCAGAGT 3120
Db |||||
QY 3121 ATATCTGTCTGGGGAATCTCACAGAAACTCAGAGCACCCCTGCTGAGCTAAGG 3180
Db |||||
QY 3121 ATATCTGTCTGGGGAATCTCACAGAAACTCAGAGCACCCCTGCTGAGCTAAGG 3180
Db |||||
QY 3181 GAGGTCTTATCTCTCAGGGGGGTTAAGTGGCGTTTGCATATGCTCTTATTTATT 3240
Db |||||
QY 3181 GAGGTCTTATCTCTCAGGGGGGTTAAGTGGCGTTTGCATATGCTCTTATTTATT 3240
Db |||||
QY 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db |||||
QY 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db |||||
QY 3301 AAATTTAAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db |||||
QY 3301 AAATTTAAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db |||||
QY 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db |||||
QY 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db |||||
```

RESULT 6

```
US-09-232-149A-110
; Sequence 110, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillion, Jennifer Lynn
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232.149A
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110
```

Query Match 100.0%; Score 3410; DB 3; Length 3410;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 GGGAAACAGGCTGACCGGCTGCTCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db |||||
QY 1 GGGAAACAGGCTGACCGGCTGCTCGGGTGACAGCGCGCGCTCGGCCAGGATCTGA 60
Db |||||
QY 61 GTGATGAGAGTGTCCTCCCACTGAGGTGCCCAACAGCAGCAGGCTGAGCATGGGCTGAG 120
Db |||||
QY 61 GTGATGAGAGTGTCCTCCCACTGAGGTGCCCAACAGCAGCAGGCTGAGCATGGGCTGAG 120
Db |||||
QY 121 AAGCTGACCGGACCAAGAGGCTGGCAGAAATGGGCGCTGCTGATTCCTAGGAGTT 180
Db |||||
QY 121 AAGCTGACCGGACCAAGAGGCTGGCAGAAATGGGCGCTGCTGATTCCTAGGAGTT 180
Db |||||
QY 181 GGGGACAGCAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGCAGGAGCTCTG 240
Db |||||
QY 181 GGGGACAGCAGGAGGAGGCGCGAGCTTCTGGAGCAGAGCCGAGCAGGAGCTCTG 240
Db |||||
```


Db 2401 TTTCTAGGATGAACACCTCTCTCCATGGGATTTGAAATATGATGACTTATTTAGGGGAAGA 2460
Qy 2461 GTCCCTGAGGGGCAACACAGAAACAGTCCCTCAGCCACAGCATGCTTTTTCCT 2520
Db 2461 GTCCCTGAGGGGCAACACAGAAACAGTCCCTCAGCCACAGCATGCTTTTTCCT 2520
Qy 2521 GATCACCCCTCTTACCTTTATCAGGATGTGGCTGTGGTCTCTCTGTGGCAATCA 2580
Db 2521 GATCACCCCTCTTACCTTTATCAGGATGTGGCTGTGGTCTCTCTGTGGCAATCA 2580
Qy 2581 CAGACACAGGCATTTAAATATTAACTATTATTTAAACAAAGTAGAAGGAATCCAT 2640
Db 2581 CAGACACAGGCATTTAAATATTAACTATTATTTAAACAAAGTAGAAGGAATCCAT 2640
Qy 2641 TGCTAGCTTTCTGTGTGGTGTCTAAATATTTGGGTAGGGTCCCAACAAATCA 2700
Db 2641 TGCTAGCTTTCTGTGTGGTGTCTAAATATTTGGGTAGGGTCCCAACAAATCA 2700
Qy 2701 GGTCCCTCTGAGATAGCTGTGATCGGCTGATCATTTGCCAGAACTCTTCTCTCTGGGT 2760
Db 2701 GGTCCCTCTGAGATAGCTGTGATCGGCTGATCATTTGCCAGAACTCTTCTCTCTGGGT 2760
Qy 2761 GTGGCCCTCCCAAAATGCCCTAACCCAGGACTTTGGAATTTCTACTATCCCAAAATGATAT 2820
Db 2761 GTGGCCCTCCCAAAATGCCCTAACCCAGGACTTTGGAATTTCTACTATCCCAAAATGATAT 2820
Qy 2821 TCCAAATGCTGTGTACCCAGGTAGGGTTGGAAGAGGTAGAGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTGTACCCAGGTAGGGTTGGAAGAGGTAGAGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAAAGCTTCCCTAACACCCCTCTTCTCTGTGGCCAGGCTGGTTCCTCCCACTTCCA 2940
Db 2881 CTCAAAGCTTCCCTAACACCCCTCTTCTCTGTGGCCAGGCTGGTTCCTCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTAGAGCTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTACC 3000
Db 2941 CTCCCTCTACTCTCTAGAGCTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTACC 3000
Qy 3001 CCCAACTTTCCCTACCCCAACTTTCCCAAGCTTCCCAAGCTTCTCAGCCCTGAGCTACT 3060
Db 3001 CCCAACTTTCCCTACCCCAACTTTCCCAAGCTTCTCAGCCCTGAGCTACT 3060
Qy 3061 GCAGGACAGAGCAAAAGTGGCTTTCCCAAGCTTCTCAGCCCTGAGCTACT 3120
Db 3061 GCAGGACAGAGCAAAAGTGGCTTTCCCAAGCTTCTCAGCCCTGAGCTACT 3120
Qy 3121 ATATCTGTGCTGGGAACTCTCACAGAAACTCAGGAGCACTCCCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTGGGAACTCTCACAGAAACTCAGGAGCACTCCCTGAGCTAAGG 3180
Qy 3181 GAGGTCTTATCTCTCAGGGGGGTTAAGTGGCTTTGCAATTAATGCTCTTATTATT 3240
Db 3181 GAGGTCTTATCTCTCAGGGGGGTTAAGTGGCTTTGCAATTAATGCTCTTATTATT 3240
Qy 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Qy 3301 AAATTAAGGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AAA 3410
Db 3361 AAA 3410

RESULT 7
US-09-159-812-110
; Sequence 110, Application US/09159812A
; Patent No. 6613872
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C5
; CURRENT APPLICATION NUMBER: US/09/159,812A
; NUMBER OF SEQ ID NOS: 306
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-159-812-110

Query Match 100.0%; Score 3410; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACAGCCTGCACGCGCTGGCTCCGGGTGACAGCCGCGCGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACAGCCTGCACGCGCTGGCTCCGGGTGACAGCCGCGCGCTCGGCCAGGATCTGA 60
Qy 61 GTGATGAGACTGTTCCTCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120
Db 61 GTGATGAGACTGTTCCTCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGGCTGAG 120
Qy 121 AAGCTGACCGCGCACCAAGGGCTGGCAGAAATGGGCGCTGCTGATTCCTAGCAGCTT 180
Db 121 AAGCTGACCGCGCACCAAGGGCTGGCAGAAATGGGCGCTGCTGATTCCTAGCAGCTT 180
Qy 181 GCGCGCAGCAGGAGGAGAGCGCCAGCTTCTGAGCAGAGCCGAGCAGAGCAGTTCGT 240
Db 181 GCGCGCAGCAGGAGGAGAGCGCCAGCTTCTGAGCAGAGCCGAGCAGAGCAGTTCGT 240
Qy 241 GAGTGCCTGAACGCGCCCTGAGCCCTACCGCCCTGGCCACATATGTTCCAGAGGCTGTG 300
Db 241 GAGTGCCTGAACGCGCCCTGAGCCCTACCGCCCTGGCCACATATGTTCCAGAGGCTGTG 300
Qy 301 GGTGAGCGCTGTGTGGGCAACCGGAAAGCCAGCTTCTGTGTGCTCAACCTGCTAACCTT 360
Db 301 GGTGAGCGCTGTGTGGGCAACCGGAAAGCCAGCTTCTGTGTGCTCAACCTGCTAACCTT 360
Qy 361 TGGCTGAGGAGTGTGTTTGGCGCAGGCATCACCTATGTGCGCCCTCTGTGCTGGAAGT 420
Db 361 TGGCTGAGGAGTGTGTTTGGCGCAGGCATCACCTATGTGCGCCCTCTGTGCTGGAAGT 420
Qy 421 GGGGTGAGAGAGTTCATGACCATGTTGGGCATTTGGTCCAGTGTGGGCTGGT 480
Db 421 GGGGTGAGAGAGTTCATGACCATGTTGGGCATTTGGTCCAGTGTGGGCTGGT 480
Qy 481 CTGTGTCCTGCTCTAGGCTCAGCAGTGAACCTGCGGTGAGCGCTATGTCGCGCGCG 540
Db 481 CTGTGTCCTGCTCTAGGCTCAGCAGTGAACCTGCGGTGAGCGCTATGTCGCGCGCG 540
Qy 541 GCCCTTCATCTGGGCACTGCTTTGGGCATCTCTGTCAGGCTCTTTCTCATCCCAAGGC 600
Db 541 GCCCTTCATCTGGGCACTGCTTTGGGCATCTCTGTCAGGCTCTTTCTCATCCCAAGGC 600
Qy 601 CGGCTGCTAGCAGGCTGTGTGTCGCGGATCCAGGCGCCCTGGAGCTGGGCTGCTCAT 660
Db 601 CGGCTGCTAGCAGGCTGTGTGTCGCGGATCCAGGCGCCCTGGAGCTGGGCTGCTCAT 660
Qy 661 CCTGGGCTGGGCTGTGGACTTCTGTGGCCAGGTGTGCTTCACTCAGCTGGAGGCGCT 720
Db 661 CCTGGGCTGGGCTGTGGACTTCTGTGGCCAGGTGTGCTTCACTCAGCTGGAGGCGCT 720
Qy 721 GCTCTGAGCCTTTCCGGGACCCGACCACTGTGTCAGGCGCTTCTGTCTGTATGCTT 780
Db 721 GCTCTGAGCCTTTCCGGGACCCGACCACTGTGTCAGGCGCTTCTGTCTGTATGCTT 780
Qy 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTCAGCTGGGACACAG 840

Db 1141 GACCTTCAGCGTGTTTTACAGGATTTTCGTGGGCGAGGGGCTGTACACAGGGCGTGCCCGAG 1200
Qy 1201 AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCCGTTCGGATGGGCAGCCT 1260
Db 1201 AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCCGTTCGGATGGGCAGCCT 1260
Qy 1261 GGGGCTGTTCTGCAGTGGCCCATCTCCCTGGTCTTCTCTGTGTCATGACACGGCTGGT 1320
Db 1261 GGGGCTGTTCTGCAGTGGCCCATCTCCCTGGTCTTCTCTGTGTCATGACACGGCTGGT 1320
Qy 1321 GCAGCGATTGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGGGCTGC 1380
Db 1321 GCAGCGATTGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGGGCTGC 1380
Qy 1381 CGGTGCCACATGCTGTCCACAGTGTGGCGTGGTGACAGCTTTCAGCGCGCCCTCACCGG 1440
Db 1381 CGGTGCCACATGCTGTCCACAGTGTGGCGTGGTGACAGCTTTCAGCGCGCCCTCACCGG 1440
Qy 1441 GTTCACCTTCTCAGCCCTCGAGATTCCTGCCCTACACACTGGCCTCCCTCTACCAACCGGA 1500
Db 1441 GTTCACCTTCTCAGCCCTCGAGATTCCTGCCCTACACACTGGCCTCCCTCTACCAACCGGA 1500
Qy 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
Db 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
Qy 1561 CCTGATGACAGCTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACGT 1620
Db 1561 CCTGATGACAGCTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACGT 1620
Qy 1621 GGGTGTGAGGCGAGTGGCCTGTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db 1621 GGGTGTGAGGCGAGTGGCCTGTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 TGATGTTCCGTAGCTGTGGTGGGTGAGCCACCGAGGCCAGGCTGGTTCGGGCCG 1740
Db 1681 TGATGTTCCGTAGCTGTGGTGGGTGAGCCACCGAGGCCAGGCTGGTTCGGGCCG 1740
Qy 1741 GGGCATCTGCTGACCTCGCATCTCTGGATGTGCTTCTGCTGTCCACAGTGGGCCCC 1800
Db 1741 GGGCATCTGCTGACCTCGCATCTCTGGATGTGCTTCTGCTGTCCACAGTGGGCCCC 1800
Qy 1801 ATCCCTGTTATGGGCTCCATGTGCCAGCTCAGCCAGTCTGTCTCATCTGCCCTATATGGTGT 1860
Db 1801 ATCCCTGTTATGGGCTCCATGTGCCAGCTCAGCCAGTCTGTCTCATCTGCCCTATATGGTGT 1860
Qy 1861 TGCCGAGGCGCTGGTCTGTGGCCATTTACTTGTGTACACAGTAGTATTTGACAAAGAG 1920
Db 1861 TGCCGAGGCGCTGGTCTGTGGCCATTTACTTGTGTGTACACAGTAGTATTTGACAAAGAG 1920
Qy 1921 CGACTTGGCCAAATACCTCAGGTAGAAAACCTTCCAGCACATTTGGGGTGGAGGGCGCTGCCT 1980
Db 1921 CGACTTGGCCAAATACCTCAGGTAGAAAACCTTCCAGCACATTTGGGGTGGAGGGCGCTGCCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCTGTGTAGCCCATATGGGGTGTGCGGGCTGGCGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCTGTGTAGCCCATATGGGGTGTGCGGGCTGGCGCCAGT 2040
Qy 2041 TTCTGTTGTGCCAAAGTAAATGTGGCTCTCTGTGTGCCAACCCCTGTGTGTGAGTGGGTA 2100
Db 2041 TTCTGTTGTGCCAAAGTAAATGTGGCTCTCTGTGTGCCAACCCCTGTGTGTGAGTGGGTA 2100
Qy 2101 GCTGCAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCCAGTCTTAGGGCTGCTG 2160
Db 2101 GCTGCAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCCAGTCTTAGGGCTGCTG 2160
Qy 2161 ACTGGAGCCCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Db 2161 ACTGGAGCCCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Qy 2221 ATGCACGTGGAATGCGGGACTCTGACGGTGAATPACCAAGCTCAGGGTTAAACAGCTAGC 2280
Db 2221 ATGCACGTGGAATGCGGGACTCTGACGGTGAATPACCAAGCTCAGGGTTAAACAGCTAGC 2280

Qy 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAATCAGTCACCTG 2340
Db 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAATCAGTCACCTG 2340
Qy 2341 GTTTCOCATCTTAAGCCCTTAACTGAGCTTCGTTTAAATGTAGCTCTTGCATGGGAG 2400
Db 2341 GTTTCOCATCTTAAGCCCTTAACTGAGCTTCGTTTAAATGTAGCTCTTGCATGGGAG 2400
Qy 2401 TTTCTAGGATGAACAACCTCCTCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Db 2401 TTTCTAGGATGAACAACCTCCTCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAAGAACCAAGGTCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Db 2461 GTCTGAGGGGCAACACACAAGAACCAAGGTCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTGTCTTCTGTGTCGCATCA 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTGTCTTCTGTGTCGCATCA 2580
Qy 2581 CAGAGACACAGGCAATTAATATTTAACTTATTTTAAACAAGTAGAAGGGAATCCAT 2640
Db 2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTTAAACAAGTAGAAGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATCCCCAAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATCCCCAAACAATCA 2700
Qy 2701 GGTCCCTCGAGATGAGTGTGTCATTTGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGT 2760
Db 2701 GGTCCCTCGAGATGAGTGTGTCATTTGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCCTAACCCAGGACCTTGGAAATTTCTACTCATCCCAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCCTAACCCAGGACCTTGGAAATTTCTACTCATCCCAATGATAAT 2820
Qy 2821 TCCAAATGCTGTGTACCCAAAGTTAGGGTGTGGAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTGTACCCAAAGTTAGGGTGTGGAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAACGGCTTCCCTAACCAACCCCTCTTCTTGTGGCCAGCCTGGTTCCCCCACTTCCA 2940
Db 2881 CTCAACGGCTTCCCTAACCAACCCCTCTTCTTGTGGCCAGCCTGGTTCCCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTAGGACTGGGCTGATGAAGGCACTGGCCCAAAATTTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTAGGACTGGGCTGATGAAGGCACTGGCCCAAAATTTTCCCTTACC 3000
Qy 3001 CCCAACTTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
Db 3001 CCCAACTTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
Qy 3061 GCAGGACCAAGACACAAAGTGGGTTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGGACCAAGACACAAAGTGGGTTTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTGCTTGGGAAATCTCACAGAAACTCAGAGCACCCCTGCTGAGCTTAAGG 3180
Db 3121 ATATCTGTGCTTGGGAAATCTCACAGAAACTCAGAGCACCCCTGCTGAGCTTAAGG 3180
Qy 3181 GAGGCTTATCTCTCAGGGGGGTTTTAAGTGGCGTTTTGCAATAATATGTCGCTTATTTATT 3240
Db 3181 GAGGCTTATCTCTCAGGGGGGTTTTAAGTGGCGTTTTGCAATAATATGTCGCTTATTTATT 3240
Qy 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGGTGACA 3300
Db 3241 TAGCGGGTGAATATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGGTGACA 3300
Qy 3301 AAATTAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTAAGGCTTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360

QY 3361 AA 3410
 Db |||||

RESULT 9

US-09-685-166A-110
 ; Sequence 110, Application US/09685166A
 ; Patent No. 6630305
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yuqui
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Li, Samuel
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Hepler, William
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
 ; FILE REFERENCE: 210121.427C21
 ; CURRENT APPLICATION NUMBER: US/09/685,166A
 ; CURRENT FILING DATE: 2000-10-10
 ; NUMBER OF SEQ ID NOS: 898
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 110
 ; LENGTH: 3410
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-685-166A-110

Query Match 100.0%; Score 3410; DB 4; Length 3410;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGACACAGCTGACGCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCCAGAGATCTGA 60
 Db |||||

QY 61 GTGATGAGACGTGTCCCACTGAGGTGCCCAACAGCAGAGAGTGTGAGCATGGGCTGAG 120
 Db |||||

QY 121 AAGCTGGACCGGACCAAGGGCTGGCAGAAATGGCGCGCTGGCTAGCTTCTAGGAGTT 180
 Db |||||

QY 181 GCGCAGCAGAGGAGGCGCGAGCTTCTGAGCAGAGCGCAGAGAGAGAGAGTCTG 240
 Db |||||

QY 241 GAGTGCCTGAACGGCCCCCTGAGCCCTACCGCTTGGCCCACTATGTTCCAGAGGCTGTG 300
 Db |||||

QY 301 GGTGAGCGGCTGTGTCGGCAGCGGAGAGCGGAGCTTGTGTCAGCTTCTTAACTT 360
 Db |||||

QY 361 TGGCCTGAGAGTGTGTTGGCGGAGGAGTCACTATGTCGGCTCTGCTGCTGGAAGT 420
 Db |||||

QY 421 GGGGTAGAGGAGAGTTCATGACCAATGGTGTGGGCATTTGGTCAGTGTGGGCTGGT 480

Db |||||

QY 421 GGGGTAGAGGAGAGTTCATGACCATGGTCTGGGCAATGGTCTGGGCTGGGCTGGT 480

QY 481 CTGTGTCCTCGCTCTAGGCTCAGCAGTACACCTGGCGTGGAGCGTATGGCGCGCG 540

Db |||||

QY 481 CTGTGTCCTCGCTCTAGGCTCAGCAGTACACCTGGCGTGGAGCGTATGGCGCGCG 540

QY 541 GCGCTTTCATCTGGGCACTGTCTTGGGCACTCTGTGAGCCCTTTTCATCTCCCAAGGC 600

Db |||||

QY 601 GCGTGGCTAGCAGGCTGTGTGCGCGAGTCCAGGCGCCCTGAGCTGGGCACTGTCTAT 660

Db |||||

QY 601 GCGTGGCTAGCAGGCTGTGTGCGCGAGTCCAGGCGCCCTGAGCTGGGCACTGTCTAT 660

QY 661 CCGGGGTGGGCTGTGTGAGCTTCTGTGGCAGGTGTCTTCACTCCACATGGAGGCT 720

Db |||||

QY 661 CCGGGGTGGGCTGTGTGAGCTTCTGTGGCAGGTGTCTTCACTCCACATGGAGGCT 720

QY 721 GCTCTCTGACCTTTCGGGCACTGTGTGCGCGAGCTGTGCGCGAGCTTCTGTCTATG 780

Db |||||

QY 721 GCTCTCTGACCTTTCGGGCACTGTGTGCGCGAGCTGTGCGCGAGCTTCTGTCTATG 780

QY 781 CATGATCAGTCTTGGGGCTGTGTGCGCGAGCTGTGCGCGAGCTTGTGAGCAGCAG 840

Db |||||

QY 781 CATGATCAGTCTTGGGGCTGTGTGCGCGAGCTGTGCGCGAGCTTGTGAGCAGCAG 840

QY 841 TGGCTGGCGCTTACCTGGGCACTGTGTGCGCGAGCTGTGTGCGCGAGCTTGTGAGC 900

Db |||||

QY 841 TGGCTGGCGCTTACCTGGGCACTGTGTGCGCGAGCTGTGTGCGCGAGCTTGTGAGC 900

QY 901 CTTCTCAGCTGTGTGAGCAGCAGCTGTGTGCGCGAGCTGTGTGCGCGAGCTTGTGAG 960

Db |||||

QY 901 CTTCTCAGCTGTGTGAGCAGCAGCTGTGTGCGCGAGCTGTGTGCGCGAGCTTGTGAG 960

QY 961 CGAGCGAGAGAGGCTGTGTGCGCGCTTCTGTGCGCGAGCTGTGTGCGCGAGCTTGTG 1020

Db |||||

QY 961 CGAGCGAGAGAGGCTGTGTGCGCGCTTCTGTGCGCGAGCTGTGTGCGCGAGCTTGTG 1020

QY 1021 CCGCTTGGCTTTCGGGAACTGGGCGCTTCTTCCCGGCTGACAGCTGTGTGCGCG 1080

Db |||||

QY 1021 CCGCTTGGCTTTCGGGAACTGGGCGCTTCTTCCCGGCTGACAGCTGTGTGCGCG 1080

QY 1081 CATGCCCGCACTTGGCGCGCTTCTGTGCGCTGAGCTGTGTGCGAGCTGGATGGCACT 1140

Db |||||

QY 1081 CATGCCCGCACTTGGCGCGCTTCTGTGCGCTGAGCTGTGTGCGAGCTGGATGGCACT 1140

QY 1141 GACCTTCACTGTGTGTACAGGATTTCTGTGGGCGAGGCTGTACAGGCGGTGCCAG 1200

Db |||||

QY 1141 GACCTTCACTGTGTGTACAGGATTTCTGTGGGCGAGGCTGTACAGGCGGTGCCAG 1200

QY 1201 AGCTGAGCGGCGACCGAGGCGCGAGACACTATGATGAAGCGTTCCGATGGGCGCT 1260

Db |||||

QY 1201 AGCTGAGCGGCGACCGAGGCGCGAGACACTATGATGAAGCGTTCCGATGGGCGCT 1260

QY 1261 GGGCTGTGTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTGATGAGACCGGCT 1320

Db |||||

QY 1261 GGGCTGTGTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTGATGAGACCGGCT 1320

QY 1321 GCAGCGATTCGAGCTGTGAGGCTTATTTGGCGAGTGTGCGAGCTTTCCTGTGGCTGC 1380

Db |||||

QY 1321 GCAGCGATTCGAGCTGTGAGGCTTATTTGGCGAGTGTGCGAGCTTTCCTGTGGCTGC 1380

QY 1381 CCGTGGCAGATGCTGTCCCACTGTGGCGTGTGACAGCTTTCAGCGCGCTTCAACCG 1440

Db |||||

QY 1381 CCGTGGCAGATGCTGTCCCACTGTGGCGTGTGACAGCTTTCAGCGCGCTTCAACCG 1440

QY 1441 GTTCACTTCTCAGCGCTTGTGCGCTTGTGCGCTTGTGCGCTTGTGCGCTTGTGCG 1500

Db |||||

QY 1441 GTTCACTTCTCAGCGCTTGTGCGCTTGTGCGCTTGTGCGCTTGTGCGCTTGTGCG 1500

QY 1501 GAACAGGTGTCTCTGCGCAATACCGAGGAGCACTGGAGGTGTGAGCTGTGAGGAG 1560

Db |||||

Query Match		100.0%;	Score 3410;	DB 4;	Length 3410;		
Best Local Similarity		100.0%;	Pred. No. 0;				
Matches 3410;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;		
Qy	1	GGGAACCAAGCTGCAACGGCTGGCTCCGGGTGACAGCCGCGCCTCGGCGAGGATCTGA	60				
Db	1	GGGAACCAAGCTGCAACGGCTGGCTCCGGGTGACAGCCGCGCCTCGGCGAGGATCTGA	60				
Qy	61	GTGATGAGACGTGTCCTCCCACTGAGGTGCCACACACACAGCAGGTGTTGAGCATGGCTGAG	120				
Db	61	GTGATGAGACGTGTCCTCCCACTGAGGTGCCACACACACAGCAGGTGTTGAGCATGGCTGAG	120				
Qy	121	AACTGGACCGGCACCAAGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGGACGTT	180				
Db	121	AACTGGACCGGCACCAAGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGGACGTT	180				
Qy	181	GGCGGAGCAAGGAGGAGGCGCAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG	240				
Db	181	GGCGGAGCAAGGAGGAGGCGCAGCTTCTGGAGCAGAGCCGAGACGAAGCAGTTCTG	240				
Qy	241	GAGTCCCTGAACGGCCCTGAGCCCTACCCGCTGAGCCCTACCTATGTCAGAGGCTGTG	300				
Db	241	GAGTCCCTGAACGGCCCTGAGCCCTACCCGCTGAGCCCTACCTATGTCAGAGGCTGTG	300				
Qy	301	GGTGAGCCGCTGCTGCGGCACCGGAAAGCCAGCTCTTGTGCTGCTCAACCTGCTAACCTT	360				
Db	301	GGTGAGCCGCTGCTGCGGCACCGGAAAGCCAGCTCTTGTGCTGCTCAACCTGCTAACCTT	360				
Qy	361	TGGCTGAGAGGTGTTTGGCGCAGGCAATCACTATGTCGCGCTCTGCTGCTGGAAGT	420				
Db	361	TGGCTGAGAGGTGTTTGGCGCAGGCAATCACTATGTCGCGCTCTGCTGCTGGAAGT	420				
Qy	421	GGGGTAGAGAGAGTTTCATGACCATGCTGCTGGGCATTTGTCAGGTGCTGGGCTGGT	480				
Db	421	GGGGTAGAGAGAGTTTCATGACCATGCTGCTGGGCATTTGTCAGGTGCTGGGCTGGT	480				
Qy	481	CTGTGTCCTGCTCCTAGGCTCAGCCAGTGACACCTGGCGGTGGACCTATGCGCCGCGCG	540				
Db	481	CTGTGTCCTGCTCCTAGGCTCAGCCAGTGACACCTGGCGGTGGACCTATGCGCCGCGCG	540				
Qy	541	GCCCTTCATCTGGGCACTGCTTGGGCAATCTGCTGAGCCCTCTTCTCATCCCAAGGCG	600				
Db	541	GCCCTTCATCTGGGCACTGCTTGGGCAATCTGCTGAGCCCTCTTCTCATCCCAAGGCG	600				
Qy	601	CGGCTGGCTAGCAGGCTGCTGCGCCCGGATCCAGGCCCTGGAGCTGGCACTGCTCAT	660				
Db	601	CGGCTGGCTAGCAGGCTGCTGCGCCCGGATCCAGGCCCTGGAGCTGGCACTGCTCAT	660				
Qy	661	CCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGCTTCACTCCACTGGAGGCCCT	720				
Db	661	CCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGCTTCACTCCACTGGAGGCCCT	720				
Qy	721	GCTCTCTGACCTTCTCCGGGACCCGGAACAATGTCGCGCAGGCTACTCTGTATGCTTT	780				
Db	721	GCTCTCTGACCTTCTCCGGGACCCGGAACAATGTCGCGCAGGCTACTCTGTATGCTTT	780				
Qy	781	CATGATCAGTCTTGGGGCTGCTGGGCTACTCTGCTGCTGCCATTTGACTGGACACCCAG	840				
Db	781	CATGATCAGTCTTGGGGCTGCTGGGCTACTCTGCTGCTGCCATTTGACTGGACACCCAG	840				
Qy	841	TGCCCTGGCCCTTACTCTGGGCACCCAGAGGAGTGCCTCTTTGGCCTGCTCAACCTCAT	900				
Db	841	TGCCCTGGCCCTTACTCTGGGCACCCAGAGGAGTGCCTCTTTGGCCTGCTCAACCTCAT	900				
Qy	901	CTTCCTCACTGCTGAGAGCCACAATCTGCTGGTGGCTGAGGAGGCGCTGGGCCCCAC	960				
Db	901	CTTCCTCACTGCTGAGAGCCACAATCTGCTGGTGGCTGAGGAGGCGCTGGGCCCCAC	960				
Qy	961	CGAGCCAGAGAGGCTGCTGGGCCCCCTCTTGTGCGCCCACTGCTGCTCATGCGGGC	1020				
Db	961	CGAGCCAGAGAGGCTGCTGGGCCCCCTCTTGTGCGCCCACTGCTGCTCATGCGGGC	1020				

Qy	1021	CCGCTTGGCTTTCCGGAACCTTGGGCGCCCTGCTTTCCCGGCTGCACCAAGCTGTGTGCGG	1080				
Db	1021	CCGCTTGGCTTTCCGGAACCTTGGGCGCCCTGCTTTCCCGGCTGCACCAAGCTGTGTGCGG	1080				
Qy	1081	CATCCCCGCAACCTTGGCGCGCTCTTGTGGCTGAGCTGTGAGCTGGACTCAT	1140				
Db	1081	CATCCCCGCAACCTTGGCGCGCTCTTGTGGCTGAGCTGTGAGCTGGACTCAT	1140				
Qy	1141	GACCTTCAAGCTGTTTACACGGAATTTCTGGGCGAGGGCTGTACCAAGGCGTGCACAG	1200				
Db	1141	GACCTTCAAGCTGTTTACACGGAATTTCTGGGCGAGGGCTGTACCAAGGCGTGCACAG	1200				
Qy	1201	AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGCTTCGGATGGGCGCT	1260				
Db	1201	AGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGCTTCGGATGGGCGCT	1260				
Qy	1261	GGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTATGAGACGGCTGGT	1320				
Db	1261	GGGCTGTTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTATGAGACGGCTGGT	1320				
Qy	1321	GCAGCGATTGCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC	1380				
Db	1321	GCAGCGATTGCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC	1380				
Qy	1381	CGGTGCCACATGTCCTGTCCCAAGTGTGGCGGTGGTGAACGCTTTCAGCGCGCTCACCGG	1440				
Db	1381	CGGTGCCACATGTCCTGTCCCAAGTGTGGCGGTGGTGAACGCTTTCAGCGCGCTCACCGG	1440				
Qy	1441	GTTTCACTTCTCAGCCCTGAGATCTGCTCCCTACACACTGCGCTTCTTACCAACCGGGA	1500				
Db	1441	GTTTCACTTCTCAGCCCTGAGATCTGCTCCCTACACACTGCGCTTCTTACCAACCGGGA	1500				
Qy	1501	GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG	1560				
Db	1501	GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG	1560				
Qy	1561	CCTGATGACCAAGCTTCTGCGAGCCCTTAAGCTTGGAGCTTCCCTTCCCTAATGACACGT	1620				
Db	1561	CCTGATGACCAAGCTTCTGCGAGCCCTTAAGCTTGGAGCTTCCCTTCCCTAATGACACGT	1620				
Qy	1621	GGGTGCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG	1680				
Db	1621	GGGTGCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG	1680				
Qy	1681	TGATGCTCTCGTACGTGTGGTGGGTGAGCCACCGAGGCGAGGGTGGTTCCGGGCGG	1740				
Db	1681	TGATGCTCTCGTACGTGTGGTGGGTGAGCCACCGAGGCGAGGGTGGTTCCGGGCGG	1740				
Qy	1741	GGGCATCTGCTGGACCTCGCCATCTGGAATAGTGCCTTCCCTGCTGCCAGGTGGCCCC	1800				
Db	1741	GGGCATCTGCTGGACCTCGCCATCTGGAATAGTGCCTTCCCTGCTGCCAGGTGGCCCC	1800				
Qy	1801	ATCCCTGTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCTACCTGCTATATGGTGTG	1860				
Db	1801	ATCCCTGTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCTACCTGCTATATGGTGTG	1860				
Qy	1861	TGCGCAGGCTGGGTCTGGTGGCAATTTACTTTGTACACAGGTAGTATTTGACAAGAG	1920				
Db	1861	TGCGCAGGCTGGGTCTGGTGGCAATTTACTTTGTACACAGGTAGTATTTGACAAGAG	1920				
Qy	1921	CGACTTGGCCAAATATCTCAGCGTAGAAATCTTCAGCAATTTGGGGTGGAGGGCTTGCT	1980				
Db	1921	CGACTTGGCCAAATATCTCAGCGTAGAAATCTTCAGCAATTTGGGGTGGAGGGCTTGCT	1980				
Qy	1981	CAGTGGGTCCAGCTCCCGCTCTGTTAGCCCCATGGGGCTGCGGGCTGGCGCCAGT	2040				
Db	1981	CAGTGGGTCCAGCTCCCGCTCTGTTAGCCCCATGGGGCTGCGGGCTGGCGCCAGT	2040				
Qy	2041	TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGTGTCACCACTGTGCTGCTGAGGTGCGTA	2100				
Db	2041	TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGTGTCACCACTGTGCTGCTGAGGTGCGTA	2100				
Qy	2101	GCTGCAAGCTGGGGGCTGGGGCGTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	2160				

Db	481	CTGTGTC	CCCGTCTC	TAGGCTC	AGCCAGT	GACCACT	GGCGT	GGAGCGCT	TATGGCCGCGCGCG	540
Qy	541	GCCCTT	CATCTG	GGSCAT	GTGCTT	GGSCAT	CTCTGCT	GAGCCTCTT	TTCTCATCCCAAGGGC	600
Db	541	GCCCTT	CATCTG	GGSCAT	GTGCTT	GGSCAT	CTCTGCT	GAGCCTCTT	TTCTCATCCCAAGGGC	600
Qy	601	CGGCTG	GCTAG	CAGGGT	GTGTG	TCCCGGAT	CCAGGCCCCCT	GGAGTGGC	ACTGTGCTCAT	660
Db	601	CGGCTG	GCTAG	CAGGGT	GTGTG	TCCCGGAT	CCAGGCCCCCT	GGAGTGGC	ACTGTGCTCAT	660
Qy	661	CTTGGG	CGTGGG	GCTG	GACATCTT	GTGGC	CAGGTGTCTT	CATCTCA	CTGAGAGCCCT	720
Db	661	CTTGGG	CGTGGG	GCTG	GACATCTT	GTGGC	CAGGTGTCTT	CATCTCA	CTGAGAGCCCT	720
Qy	721	GCTCTCT	GACCTCTT	TCGGG	ACCGG	ACCACT	GTGCGC	AGGCTTACT	CTCTCTATGCTT	780
Db	721	GCTCTCT	GACCTCTT	TCGGG	ACCGG	ACCACT	GTGCGC	AGGCTTACT	CTCTCTATGCTT	780
Qy	781	CATGAT	CAGTCTT	GGGGG	CTGCC	TGGGCTAC	CTCTGCTG	CCGATTAC	TGAGTGGGACAC	840
Db	781	CATGAT	CAGTCTT	GGGGG	CTGCC	TGGGCTAC	CTCTGCTG	CCGATTAC	TGAGTGGGACAC	840
Qy	841	TGCCCT	GGCCCC	CTACT	CTGGG	CAACCC	AGGAGTGC	CTCTTTG	GGCTGTCTCA	900
Db	841	TGCCCT	GGCCCC	CTACT	CTGGG	CAACCC	AGGAGTGC	CTCTTTG	GGCTGTCTCA	900
Qy	901	CTTCTC	TACCTG	TAGC	AGGACAC	ACTGCTG	TGGTGGCT	GAGAGG	CAGCGTGGGCCCCAC	960
Db	901	CTTCTC	TACCTG	TAGC	AGGACAC	ACTGCTG	TGGTGGCT	GAGAGG	CAGCGTGGGCCCCAC	960
Qy	961	CGAGCC	AGCAG	AAGGGT	GTGTC	GGGCCCCCT	CTCTGTG	CGCCCCCA	CTGCTGTCCATG	1020
Db	961	CGAGCC	AGCAG	AAGGGT	GTGTC	GGGCCCCCT	CTCTGTG	CGCCCCCA	CTGCTGTCCATG	1020
Qy	1021	CCGCTT	GGCTTT	TCGGG	AACTGG	CGGCCCCCT	GTCTTT	CCCCGGCTG	CAACAGTGTGCTG	1080
Db	1021	CCGCTT	GGCTTT	TCGGG	AACTGG	CGGCCCCCT	GTCTTT	CCCCGGCTG	CAACAGTGTGCTG	1080
Qy	1081	CATGCC	CGGCAC	CCCTG	CGCGGCT	CTTCTG	TGGTGGCT	GAGCTGTG	CAGTGTGAGTGGC	1140
Db	1081	CATGCC	CGGCAC	CCCTG	CGCGGCT	CTTCTG	TGGTGGCT	GAGCTGTG	CAGTGTGAGTGGC	1140
Qy	1141	GACCTT	CACGCTG	TTTTAC	ACGATTT	CTG	GGGCGAG	GGGCTGT	TACAGGGCGTGGCCAG	1200
Db	1141	GACCTT	CACGCTG	TTTTAC	ACGATTT	CTG	GGGCGAG	GGGCTGT	TACAGGGCGTGGCCAG	1200
Qy	1201	AGCTG	AGCCGG	GCAC	CCGAGAC	CACTAT	GATGA	AGGGCTT	TCGGATGGGCAG	1260
Db	1201	AGCTG	AGCCGG	GCAC	CCGAGAC	CACTAT	GATGA	AGGGCTT	TCGGATGGGCAG	1260
Qy	1261	GGGGCT	GTTC	TG	CAGTGG	CGCATCT	CCCTGGT	CTTCTCT	GTGGTATG	1320
Db	1261	GGGGCT	GTTC	TG	CAGTGG	CGCATCT	CCCTGGT	CTTCTCT	GTGGTATG	1320
Qy	1321	GCAGCG	ATCGG	CACTG	AGCAGT	CTATTT	TGGCCAG	TGTCG	AGCTTTCCCT	1380
Db	1321	GCAGCG	ATCGG	CACTG	AGCAGT	CTATTT	TGGCCAG	TGTCG	AGCTTTCCCT	1380
Qy	1381	CGGTG	CCACAT	GCCTGT	CCACAGT	GTGGCG	TGGT	GACAGT	TTCAGCGCCCT	1440
Db	1381	CGGTG	CCACAT	GCCTGT	CCACAGT	GTGGCG	TGGT	GACAGT	TTCAGCGCCCT	1440
Qy	1441	GTTTCA	CCCTT	CT	CAGCC	CTG	AGAT	CTCTG	CCCTT	1500
Db	1441	GTTTCA	CCCTT	CT	CAGCC	CTG	AGAT	CTCTG	CCCTT	1500
Qy	1501	GAGCAG	GGTGT	TCTG	CGCCAA	TAC	CCAGGGG	CAC	TGGAGG	1560
Db	1501	GAGCAG	GGTGT	TCTG	CGCCAA	TAC	CCAGGGG	CAC	TGGAGG	1560
Qy	1561	CCTGAT	GAC	CAGCTT	CTCTG	CGAGGCC	CTA	AGCC	CTG	1620
Db	1561	CCTGAT	GAC	CAGCTT	CTCTG	CGAGGCC	CTA	AGCC	CTG	1620

1561	DB	CTGTATGACAGCGTTCTCTGCGCAGGCGCCTTAAGCGCTGAGAGCTCCCTTCCCTTAATGGACACAGT	1621
1621	QY	GGGTGCTGGAGGCAGTGGGCTGTCTCCACACTCCACCCGCGCTCTGCGGGCCCTCTGCCTG	1680
	DB	GGGTGCTGGAGGCAGTGGGCTGTCTCCACACTCCACCCGCGCTCTGCGGGCCCTCTGCCTG	1680
	QY	TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCCG	1740
1681	DB	TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCCG	1740
1741	QY	GGGCATCTGCGTGGACCTCGCCATCTGTGATAGTGCCTTCTGCTGTCCAGAGTGGGCC	1800
1741	DB	GGGCATCTGCGTGGACCTCGCCATCTGTGATAGTGCCTTCTGCTGTCCAGAGTGGGCC	1800
1801	QY	ATCCCTGTTTATGGGCTCAATTTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGTGTCT	1860
1801	DB	ATCCCTGTTTATGGGCTCAATTTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGTGTCT	1860
1861	QY	TGCGCAGGCGCTGGGTCTGGTGCCTATTTACTTTGTCTACACAGGTAGTATTTTGACAAGAG	1920
1861	DB	TGCGCAGGCGCTGGGTCTGGTGCCTATTTACTTTGTCTACACAGGTAGTATTTTGACAAGAG	1920
1921	QY	CGACTTGGCCAAATACTCAGCGTAGAAAACTTCCAGCACATTTGGGGTGGAGGCCCTGCGCT	1980
1921	DB	CGACTTGGCCAAATACTCAGCGTAGAAAACTTCCAGCACATTTGGGGTGGAGGCCCTGCGCT	1980
1981	QY	CAGTGGGTCCCAGCTCCCGCTCTCTGTAGCCCACTGGGGCTGCGGGCTGGGCCGCGCAGT	2040
1981	DB	CAGTGGGTCCCAGCTCCCGCTCTCTGTAGCCCACTGGGGCTGCGGGCTGGGCCGCGCAGT	2040
2041	QY	TTCTGTGTGTCGCAAAAGTAAATGTGGCTCTCTGTGTGCCACCCCTGTGTCTGAGAGTGCCTA	2100
2041	DB	TTCTGTGTGTCGCAAAAGTAAATGTGGCTCTCTGTGTGCCACCCCTGTGTCTGAGAGTGCCTA	2100
2101	QY	GCTGCACAGCTGGGGCTGGGGCTCCCTCTCTCTCTCCACAGTCTCTAGGGCTGCCTG	2160
2101	DB	GCTGCACAGCTGGGGCTGGGGCTCCCTCTCTCTCTCCACAGTCTCTAGGGCTGCCTG	2160
2161	QY	ACTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGCTCC	2220
2161	DB	ACTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGCTCC	2220
2221	QY	ATGCATCTGGAATGCGGGGACTCTGCAAGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC	2280
2221	DB	ATGCATCTGGAATGCGGGGACTCTGCAAGTGGATTACCCAGGCTCAGGGTTAACAGCTAGC	2280
2281	QY	CTCTAGTTGAGACACACCTAGAGAAAGGTTTTTGGGAGCTGAAATAACTCATGTACCTG	2340
2281	DB	CTCTAGTTGAGACACACCTAGAGAAAGGTTTTTGGGAGCTGAAATAACTCATGTACCTG	2340
2341	QY	GTTTCCCATCTCTTAGCCCCCTTAACTGAGCTTTCGTTTAAATGTAGCTCTGTGCATGGGAG	2400
2341	DB	GTTTCCCATCTCTTAGCCCCCTTAACTGAGCTTTCGTTTAAATGTAGCTCTGTGCATGGGAG	2400
2401	QY	TTTCTAGGATGAAACACTCCTCCATGGGATTTGAAATATGACTATTTGTAGGGGAAGA	2460
2401	DB	TTTCTAGGATGAAACACTCCTCCATGGGATTTGAAATATGACTATTTGTAGGGGAAGA	2460
2461	QY	GTCTGAGGGGAAACACACAAGAACAGGTGCCCTCAGGCCACAGCACTGTCTTTTGTCT	2520
2461	DB	GTCTGAGGGGAAACACACAAGAACAGGTGCCCTCAGGCCACAGCACTGTCTTTTGTCT	2520
2521	QY	GATCCACCCCTCTTACCTTTTATCAGATGTGGGCTGTGTGCTCTCTGTTGCCATCA	2580
2521	DB	GATCCACCCCTCTTACCTTTTATCAGATGTGGGCTGTGTGCTCTCTGTTGCCATCA	2580
2581	QY	CAGAGACACAGGCATTTAAATATTTAACTATTTTAAACAAAGTAGAGGGAATCCAT	2640
2581	DB	CAGAGACACAGGCATTTAAATATTTAACTATTTTAAACAAAGTAGAGGGAATCCAT	2640
2641	QY	TGCTAGCTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATCCCAACAATCA	2700
2641	DB	TGCTAGCTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATCCCAACAATCA	2700

QY 2701 GGTCCCTGAGATAGCTGGTCAATGGGCTGATCAATGCCAGAAATCTTCTTCTCTGGGGT 2760
Db 2701 GGTCCCTGAGATAGCTGGTCAATGGGCTGATCAATGCCAGAAATCTTCTTCTCTGGGGT 2760
QY 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATCTTACTCATCCCAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATCTTACTCATCCCAATGATAAT 2820
QY 2821 TCCAAATGCTGTATCCCAAGGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTATCCCAAGGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
QY 2881 CTCAAGGGCTTCCCTTAACCAACCCCTCTTCTTGTGGCCAGGCTGGTTCCTCCCACTTCCA 2940
Db 2881 CTCAAGGGCTTCCCTTAACCAACCCCTCTTCTTGTGGCCAGGCTGGTTCCTCCCACTTCCA 2940
QY 2941 CTCCCTCTACTCTCTAGGACTGGGCTGATGAAGGCACCTGCCCAAAATTCCTCCCTACC 3000
Db 2941 CTCCCTCTACTCTCTAGGACTGGGCTGATGAAGGCACCTGCCCAAAATTCCTCCCTACC 3000
QY 3001 CCCAACTTCCCTTACCCCAACCTTCCCAACCCAGCTCCCAACCCCTGTTGGAGCTACT 3060
Db 3001 CCCAACTTCCCTTACCCCAACCTTCCCAACCCAGCTCCCAACCCCTGTTGGAGCTACT 3060
QY 3061 GCAGGACAGAAAGCACAAGTGCCTTCCCAAGCCTTTGTCCATCTCAGGCCCCAGAGT 3120
Db 3061 GCAGGACAGAAAGCACAAGTGCCTTCCCAAGCCTTTGTCCATCTCAGGCCCCAGAGT 3120
QY 3121 ATATCTGTGCTGGGGAATCTCACACAGAACTCAGAGGACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTGGGGAATCTCACACAGAACTCAGAGGACCCCTGCTGAGCTAAGG 3180
QY 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTCCGCTTTCGAATAATGCTCTTATTATT 3240
Db 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTCCGCTTTCGAATAATGCTCTTATTATT 3240
QY 3241 TAGCGGGGTGAATTTTATATCTGTAAGTGAGCAATCAGAGTATAATGTTATGCTGACA 3300
Db 3241 TAGCGGGGTGAATTTTATATCTGTAAGTGAGCAATCAGAGTATAATGTTATGCTGACA 3300
QY 3301 AAATTAAGGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAA 3360
QY 3361 AA 3410
Db 3361 AA 3410

RESULT 12

US-09-679-426-110
; Sequence 110, Application US/09679426
; Patent No. 6759515
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedrick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C20
; CURRENT APPLICATION NUMBER: US/09/679,426
; CURRENT FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 895
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-679-426-110

Query Match 100.0%; Score 3410; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGGNACAGCTGACACGGCTCGGCTCGGGTGACAGCGCGCGCTCGGCAGGATCTGA 60
Db 1 GGGNACAGCTGACACGGCTCGGCTCGGGTGACAGCGCGCGCTCGGCAGGATCTGA 60
QY 61 GTGATGAGAGCTGTCCCACTAGAGTGCCTCCACAGCAGCAGGTGTTGAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTAGAGTGCCTCCACAGCAGCAGGTGTTGAGCATGGCTGAG 120
QY 121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGCGCCTGGCTGATTTCTTAGGCAGTT 180
Db 121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGCGCCTGGCTGATTTCTTAGGCAGTT 180
QY 181 GCGGACAGCAAGAGGAGAGGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db 181 GCGGACAGCAAGAGGAGAGGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
QY 241 GAGTGCCTGAAACCGCCCTGAGCCCTTACCGCTGCGCTGCCCACTATGTGCCAGAGCTGTG 300
Db 241 GAGTGCCTGAAACCGCCCTGAGCCCTTACCGCTGCGCTGCCCACTATGTGCCAGAGCTGTG 300
QY 301 GGTGAGCGGCTCTGCTCGGCACCGGAAAGCCAGCTTCTGCTGCTCAACCTGTAACTTT 360
Db 301 GGTGAGCGGCTCTGCTCGGCACCGGAAAGCCAGCTTCTGCTGCTCAACCTGTAACTTT 360
QY 361 TGGCTGGAGGTGTTTGGCGGAGGAGCATCCTATGTGCGGCTCTGCTGCTGGAAGT 420
Db 361 TGGCTGGAGGTGTTTGGCGGAGGAGCATCCTATGTGCGGCTCTGCTGCTGGAAGT 420
QY 421 GGGGTAGAGGAGAAAGTTTCAATGACCATGCTGGGCAATTTGGTCCAGTGTGGGCTTGGT 480
Db 421 GGGGTAGAGGAGAAAGTTTCAATGACCATGCTGGGCAATTTGGTCCAGTGTGGGCTTGGT 480
QY 481 CTGTGTCCTGCTCTTAGGCTCAGCAGTGACCATGCGCTGGAGCGCTATGGCGCGCGCG 540
Db 481 CTGTGTCCTGCTCTTAGGCTCAGCAGTGACCATGCGCTGGAGCGCTATGGCGCGCGCG 540
QY 541 GCGCTTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGGCTCTTTCTCATCCCAAGGC 600
Db 541 GCGCTTTCATCTGGGCACTGCTTGGGCACTCTGCTGAGGCTCTTTCTCATCCCAAGGC 600
QY 601 CGGCTGGCTAGCAGGGCTGCTGCGCGGATCCAGGCCCTGGAGCTGGCAGCTGCTCAT 660
Db 601 CGGCTGGCTAGCAGGGCTGCTGCGCGGATCCAGGCCCTGGAGCTGGCAGCTGCTCAT 660
QY 661 CTTGGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGCTTCACTCCAGTGGAGGCGCT 720
Db 661 CTTGGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGCTTCACTCCAGTGGAGGCGCT 720
QY 721 GCTCTGTGACTCTTCCGGGACCCGACCACTGTGCGCAGGCTTCTGCTATGCTT 780
Db 721 GCTCTGTGACTCTTCCGGGACCCGACCACTGTGCGCAGGCTTCTGCTATGCTT 780
QY 781 CATGATCAGTCTTGGGGGCTGCTGGCTACCTCCCTGCCCTGACCTTACCTGGGACAC 840
Db 781 CATGATCAGTCTTGGGGGCTGCTGGCTACCTCCCTGCCCTGACCTTACCTGGGACAC 840
QY 841 TGCCCTGGCCCCCTTACCTGGGCACCCAGGAGGAGTGCCTTTTGGGCTGCTCACTCCCTCAT 900

QY 3061 GCAGACGAGAACGACAAAGTGCCTGTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGACGAGAACGACAAAGTGCCTGTTCCCAAGCCTTTGTCCATCTCAGCCCCCAGAGT 3120
QY 3121 ATATCTGTGCTTGGGAATCTCACACAGAACTCAGAGACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTTGGGAATCTCACACAGAACTCAGAGACCCCTGCTGAGCTAAGG 3180
QY 3181 GAGGCTTTATCTCTCAGGGGGGTTAAGTGCCTGTTGCAATAATGTGCTCTATTATT 3240
Db 3181 GAGGCTTTATCTCTCAGGGGGGTTAAGTGCCTGTTGCAATAATGTGCTCTATTATT 3240
QY 3241 TAGCGGGGTGAATATTTTATATCTGTAACTGAGCAATCAGAGTATAATGTTTATGCTGACA 3300
Db 3241 TAGCGGGGTGAATATTTTATATCTGTAACTGAGCAATCAGAGTATAATGTTTATGCTGACA 3300
QY 3301 AAATTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAATAAAAAAAAAAAAAAAAAAAAAA 3360
QY 3361 AA 3410
Db 3361 AA 3410

RESULT 13

US-09-759-143-110

; Sequence 110, Application US/09759143

; Patent No. 6800746

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Devin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedrick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Rasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121-427C23

; CURRENT APPLICATION NUMBER: US/09/759,143

; NUMBER OF SEQ ID NOS: 934

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 110

; LENGTH: 3410

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-759-143-110

Query Match 100.0%; Score 3410; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAAACGAGCTGCACGCGCTGGTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACGAGCTGCACGCGCTGGTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
QY 61 GTGATGAGAGCTGCCCACTGAGGTGCCCAAGCAGCAGGAGTGTGAGCATGGGCTGAG 120
Db 61 GTGATGAGAGCTGCCCACTGAGGTGCCCAAGCAGCAGGAGTGTGAGCATGGGCTGAG 120

QY 121 AAGCTGACCCGACCAAAAGGCTGGCAGAAATGGCGCCTCTGGCTGATTCCTAGCAGTT 180
Db 121 AAGCTGACCCGACCAAAAGGCTGGCAGAAATGGCGCCTCTGGCTGATTCCTAGCAGTT 180
QY 181 GCGGAGCAGCAAGAGGAGGCGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db 181 GCGGAGCAGCAAGAGGAGGCGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
QY 241 GAGTGCCTGAAGCGCCCTTACCGCTTACCGCTTACCGCTTACCGCTTACCGCTTACCG 300
Db 241 GAGTGCCTGAAGCGCCCTTACCGCTTACCGCTTACCGCTTACCGCTTACCGCTTACCG 300
QY 301 GGTGAGCCGCTGCTCGGCAACCGAAAGCCAGCTTCTGCTGCTCAACCTGCTAACTT 360
Db 301 GGTGAGCCGCTGCTCGGCAACCGAAAGCCAGCTTCTGCTGCTCAACCTGCTAACTT 360
QY 361 TGGCTGAGAGTGTGTTGGCGCAGGACATCACTATGTGCGCGCTCTGCTGCTGGAAGT 420
Db 361 TGGCTGAGAGTGTGTTGGCGCAGGACATCACTATGTGCGCGCTCTGCTGCTGGAAGT 420
QY 421 GGGGTAGAGAGAGTTCATGACCATGCTGGGCAATGGTCCAGTCTGGGCTTGGT 480
Db 421 GGGGTAGAGAGAGTTCATGACCATGCTGGGCAATGGTCCAGTCTGGGCTTGGT 480
QY 481 CTGTGCTCCGCTCTCTAGGCTCAGCAGTGACCATGCTGGCGTGGAGCTATGCGCCGCG 540
Db 481 CTGTGCTCCGCTCTCTAGGCTCAGCAGTGACCATGCTGGCGTGGAGCTATGCGCCGCG 540
QY 541 GCGCTTCACTGCGGCACTGCTTGGGCACTGCTGCTGAGGCTCTTTCTCATCCCAAGGC 600
Db 541 GCGCTTCACTGCGGCACTGCTTGGGCACTGCTGCTGAGGCTCTTTCTCATCCCAAGGC 600
QY 601 CGGCTGCTAGCAGGCTGCTGCGCGGATCCAGGCCCTCGAGCTGCGACCTGCTCAT 660
Db 601 CGGCTGCTAGCAGGCTGCTGCGCGGATCCAGGCCCTCGAGCTGCGACCTGCTCAT 660
QY 661 CTTGGGCGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Db 661 CTTGGGCGTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
QY 721 GCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
Db 721 GCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
QY 781 CATGATCAGTCTTGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db 781 CATGATCAGTCTTGGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
QY 841 TGGCTGCGCCCTTACCTGCGGCAACCGAGGAGTGGCTCTTTGGGCTGCTGCTGCTGCT 900
Db 841 TGGCTGCGCCCTTACCTGCGGCAACCGAGGAGTGGCTCTTTGGGCTGCTGCTGCTGCT 900
QY 901 CTTCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
Db 901 CTTCTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 960
QY 961 CGAGCCAGCAGAGGCTGCTGCGCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020
Db 961 CGAGCCAGCAGAGGCTGCTGCGCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020
QY 1021 CCGCTTGGCTTTCCGGAACCTGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
Db 1021 CCGCTTGGCTTTCCGGAACCTGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
QY 1081 CATGCCCGCACCTGCGCGGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
Db 1081 CATGCCCGCACCTGCGCGGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
QY 1141 GACTTTCAGCTGTTTTTACAGGATTTCTGGGCGAGGGGCTCTACAGAGGCGTGGCCAG 1200
Db 1141 GACTTTCAGCTGTTTTTACAGGATTTCTGGGCGAGGGGCTCTACAGAGGCGTGGCCAG 1200
QY 1201 AGCTGAGCCGGGCAACGAGGCCCGGAGACATATATATGAGGCGTTCGAGTGGGAGCCT 1260

[illegible][illegible]

RESULT 14

US-09-651-236-110
; Sequence 110, Application US/09651236

; Patent No. 6818751

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Devin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqui

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darriack

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.42718C18

; CURRENT APPLICATION NUMBER: US/09/651,236

; CURRENT FILING DATE: 2000-08-29

; NUMBER OF SEQ ID NOS: 865

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 110

; LENGTH: 3410

; TYPE: DNA

; ORGANISM: Homo sapien

US-09-651-236-110

Query Match 100.0%; Score 3410; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGGAACAGCGTGCACCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCAGGATCTGA	60
Db	1	GGGAACAGCGTGCACCGCTGGCTCCGGGTGACAGCGCGCGCTCGGCAGGATCTGA	60
Qy	61	GTGATGAGCGTGTCCCACTGAGTGTCCCAAGCAGCAGCAGCAGTGTGAGCATGGGCTGAG	120
Db	61	GTGATGAGCGTGTCCCACTGAGTGTCCCAAGCAGCAGCAGCAGTGTGAGCATGGGCTGAG	120
Qy	121	AAGCTGACCGGACCAAAAGGCTGGCAGAAATGGCGCGCTGGCTGATTCTTAGGCAGTT	180
Db	121	AAGCTGACCGGACCAAAAGGCTGGCAGAAATGGCGCGCTGGCTGATTCTTAGGCAGTT	180
Qy	181	GGCGGACAGAGGAGGAGCGCGCAGCTTCTGGAGCAGAGCCGAGCAGAGCAGTTCG	240
Db	181	GGCGGACAGAGGAGGAGCGCGCAGCTTCTGGAGCAGAGCCGAGCAGAGCAGTTCG	240
Qy	241	GAGTGCCCTGAACGGCCCCCTGAGCCCTAACCGCCCTGAGCCCTATGCTCAGAGGCTGTG	300
Db	241	GAGTGCCCTGAACGGCCCCCTGAGCCCTAACCGCCCTGAGCCCTATGCTCAGAGGCTGTG	300
Qy	301	GGTGAGCGCGCTGCTGGGACCGGAAAGCCAGCTCTTGTGTGCTCAACCTGCTAACCTT	360
Db	301	GGTGAGCGCGCTGCTGGGACCGGAAAGCCAGCTCTTGTGTGCTCAACCTGCTAACCTT	360
Qy	361	TGGCGTGGAGGTGTGTTTGGCGCAGGCGATCACCTATGTGCGCGCTCTGCTGCTGGAAGT	420
Db	361	TGGCGTGGAGGTGTGTTTGGCGCAGGCGATCACCTATGTGCGCGCTCTGCTGCTGGAAGT	420
Qy	421	GGGGGTAGAGGAGGATTCATGACCATGTGCTGGGCATTTGGTCCAGTGTGGGCCCTGGT	480
Db	421	GGGGGTAGAGGAGGATTCATGACCATGTGCTGGGCATTTGGTCCAGTGTGGGCCCTGGT	480

Qy	481	CTGTGTCGCGCTCCTAGGCTCAGCCAGTGACCACTGGCGTGAGCGCTATGCGCCGCGCG	540
Db	481	CTGTGTCGCGCTCCTAGGCTCAGCCAGTGACCACTGGCGTGAGCGCTATGCGCCGCGCG	540
Qy	541	GCCTTTCATCTGGGCATGCTCTTGGGCATCTGCTGAGGCTCTTTCTCATCCCAAGGGC	600
Db	541	GCCTTTCATCTGGGCATGCTCTTGGGCATCTGCTGAGGCTCTTTCTCATCCCAAGGGC	600
Qy	601	CGCTGGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTCGAGCTGGGACCTGCTCAT	660
Db	601	CGCTGGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTCGAGCTGGGACCTGCTCAT	660
Qy	661	CTTGGCGTGGGCTGTGTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGCCCT	720
Db	661	CTTGGCGTGGGCTGTGTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGCCCT	720
Qy	721	GCTCTCTGACCTCTTCCGGGACCGGACCACTGTGCGCAGGCCCTACTCTCTATGCTT	780
Db	721	GCTCTCTGACCTCTTCCGGGACCGGACCACTGTGCGCAGGCCCTACTCTCTATGCTT	780
Qy	781	CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCCATTTGCTGGGACACAG	840
Db	781	CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCCATTTGCTGGGACACAG	840
Qy	841	TGCGCTGGGCCCTTACCTGGGACCCAGAGGAGTGCCTCTTTGGCCTGCTCACCCCTCAT	900
Db	841	TGCGCTGGGCCCTTACCTGGGACCCAGAGGAGTGCCTCTTTGGCCTGCTCACCCCTCAT	900
Qy	901	CTTCTCAGCTGTGTAGCAGCACACTGTGTGGTGTGAGGAGGAGCGCTGGGCCCGAC	960
Db	901	CTTCTCAGCTGTGTAGCAGCACACTGTGTGGTGTGAGGAGGAGCGCTGGGCCCGAC	960
Qy	961	CGAGCCAGCAGAGGCGTGTGGGCCCTCTCTTGTGCGCCCACTGCTGCTCATGCCGGGC	1020
Db	961	CGAGCCAGCAGAGGCGTGTGGGCCCTCTCTTGTGCGCCCACTGCTGCTCATGCCGGGC	1020
Qy	1021	CCGCTTGGCTTTCCGGAACTGGGGCGCTGCTTCCCGGCTGCACAGCTGTGCTGCCG	1080
Db	1021	CCGCTTGGCTTTCCGGAACTGGGGCGCTGCTTCCCGGCTGCACAGCTGTGCTGCCG	1080
Qy	1081	CATGCCCCGACCTGCGCGGCTCTTGTGGTGTGAGCTGTGAGCTGGATGGGACCTCAT	1140
Db	1081	CATGCCCCGACCTGCGCGGCTCTTGTGGTGTGAGCTGTGAGCTGGATGGGACCTCAT	1140
Qy	1141	GACCTTCAGCTGCTTTTACACGGATTTCTGTGGCGAGGGGCTGTACAGGCGCTGCCAG	1200
Db	1141	GACCTTCAGCTGCTTTTACACGGATTTCTGTGGCGAGGGGCTGTACAGGCGCTGCCAG	1200
Qy	1201	AGCTGAGCCGGGACCGAGGCCCGGAGACACTATGATGAAGGGCTTCGGATGGGACGCT	1260
Db	1201	AGCTGAGCCGGGACCGAGGCCCGGAGACACTATGATGAAGGGCTTCGGATGGGACGCT	1260
Qy	1261	GGGGCTGTTCTGAGTGCGCCATCTCCCTGGTCTTCTCTGGTCTATGAGCCGGCTGGT	1320
Db	1261	GGGGCTGTTCTGAGTGCGCCATCTCCCTGGTCTTCTCTGGTCTATGAGCCGGCTGGT	1320
Qy	1321	GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGCTGGCTGC	1380
Db	1321	GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGCTGGCTGC	1380
Qy	1381	CGGTGCCACATGCTGTCCACAGTGTGGCGCTGGTGACAGCTTCAGCCGCGCTCACCGG	1440
Db	1381	CGGTGCCACATGCTGTCCACAGTGTGGCGCTGGTGACAGCTTCAGCCGCGCTCACCGG	1440
Qy	1441	GTTCACTTCTCAGCCCTGCAGATCTGCGCCTACACTGGGCTCTCTCTACCAACCGGGA	1500
Db	1441	GTTCACTTCTCAGCCCTGCAGATCTGCGCCTACACTGGGCTCTCTCTACCAACCGGGA	1500
Qy	1501	GAAGCAGGTGTTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGACAG	1560
Db	1501	GAAGCAGGTGTTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGACAG	1560
Qy	1561	CCTGATGACCACTGCTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGAACGT	1620

[illegible][illegible]

RESULT 15
US-09-071-710-16
; Sequence 16, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories

STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,710
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/850,713
FILING DATE: 02-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-710-16

Query Match 56.3%; Score 1919; DB 3; Length 2152;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2149; Conservative 0; Mismatches 1; Indels 2; Gaps 1;
Qy 1177 GGGGCTGTACACGGGCGTCCAGAGCTTGAGCCGGGACCGAGGCCGGAGACACTATGA 1236
Db 1 GGGGCTGTACACGGGCGTCCAGAGCTTGAGCCGGGACCGAGGCCGGAGACACTATGA 60
Qy 1237 TGAAGGGCTTCGGATGGGAGCGCTGGGCTGTTCCTGAGTGCAGTCTATTTGGCTTT 1296
Db 61 TGAAGGGCTTCGGATGGGAGCGCTGGGCTGTTCCTGAGTGCAGTCTATTTGGCTTT 120
Qy 1297 CTCTCTGTATGACCGGCTGGTGCAGCGATTGGGCACTCGAGAGTCTATTTGGCCAG 1356
Db 121 CTCTCTGTATGACCGGCTGGTGCAGCGATTGGGCACTCGAGAGTCTATTTGGCCAG 180
Qy 1357 TGTGGCAGCTTTCCCTGTGGCTGCGGCTGCCACATGCTGTCCACAGTGTGGCCGTGGT 1416
Db 181 TGTGGCAGCTTTCCCTGTGGCTGCGGCTGCCACATGCTGTCCACAGTGTGGCCGTGGT 240
Qy 1417 GACAGCTTCAGCCGCTTACCGGCTTACCGGCTTACCGGCTTACCGGCTTACCGGCTTAC 1476
Db 241 GACAGCTTCAGCCGCTTACCGGCTTACCGGCTTACCGGCTTACCGGCTTACCGGCTTAC 300
Qy 1477 ACTGGCTCCCTCTACACCGGGAGAGCGAGTGTCTGCGCCAAATACCGAGGGGACAC 1536
Db 301 ACTGGCTCCCTCTACACCGGGAGAGCGAGTGTCTGCGCCAAATACCGAGGGGACAC 360
Qy 1537 TGGAGGTGTAGCAGTGAAGGACGCTGTAGCAGGCTTCTGTGCGAGGCCCTAGCGCTGG 1596
Db 361 TGGAGGTGTAGCAGTGAAGGACGCTGTAGCAGGCTTCTGTGCGAGGCCCTAGCGCTGG 420
Qy 1597 AGCTCCCTTCCCTTAATGAGACAGTGGGTGTGGAGGAGTGGGCTGTCTCCACCTCCACC 1656
Db 421 AGCTCCCTTCCCTTAATGAGACAGTGGGTGTGGAGGAGTGGGCTGTCTCCACCTCCACC 480
Qy 1657 CGGCTCTGGGGGCGCTTGTGCTGTATGTCTCCGTACGTGTGTGTGGGTGAGGCCAC 1716
Db 481 CGGCTCTGGGGGCGCTTGTGCTGTATGTCTCCGTACGTGTGTGTGGGTGAGGCCAC 540

Qy 1717 CGAGCCAGAGGTGGTTCGGGCGGGGCGATCTGCTGAGCTCGGCATCTCGGATGAGTC 1776
Db 541 CGAGCCAGAGGTGGTTCGGGCGGGGCGATCTGCTGAGCTCGGCATCTCGGATGAGTC 600
Qy 1777 CTTCTGCTGTCCAGGTGGCCCCCATCTCTTTTATGGGCTCCATTTGCCAGCTCAGCA 1836
Db 601 CTTCTGCTGTCCAGGTGGCCCCCATCTCTTTTATGGGCTCCATTTGCCAGCTCAGCA 660
Qy 1837 GTCTGTCACTGCTATATGTTGCTGCGCAGGCTGGGTCTGGTCCGCAATTTACTTTGC 1896
Db 661 GTCTGTCACTGCTATATGTTGCTGCGCAGGCTGGGTCTGGTCCGCAATTTACTTTGC 720
Qy 1897 TACACAGGTAGTATTTGACAGAGCGACTTTGGCCAAATACTCTCAGCGTAGAAAACCTTCCAG 1956
Db 721 TACACAGGTAGTATTTGACAGAGCGACTTTGGCCAAATACTCTCAGCGTAGAAAACCTTCCAG 780
Qy 1957 CACATTGGGTGGAGGCGCTGCTCACTGGGTCCAGCTCCCGCTCTCTGTAGGCCCAT 2016
Db 781 CACATTGGGTGGAGGCGCTGCTCACTGGGTCCAGCTCCCGCTCTCTGTAGGCCCAT 840
Qy 2017 GGGGCTGCGGGCTGGCGCCAGTTTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGC 2076
Db 841 GGGGCTGCGGGCTGGCGCCAGTTTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGC 900
Qy 2077 CACCTGTGCTGTAGGTGCTGAGCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCT 2136
Db 901 CACCTGTGCTGTAGGTGCTGAGCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCT 960
Qy 2137 CTCCCAAGTCTTAGGGCTGCTGAGCTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTT 2196
Db 961 CTCCCAAGTCTTAGGGCTGCTGAGCTGGAGGCTTCCAAAGGGGTTTCAGTCTGGACTT 1020
Qy 2197 ATACAGGAGGCCAGAGGCTCCATGCTGAGCTGGGAGTCTGGGAGTCTGAGGTGGATTTAC 2256
Db 1021 ATACAGGAGGCCAGAGGCTCCATGCTGAGCTGGGAGTCTGGGAGTCTGAGGTGGATTTAC 1080
Qy 2257 CCAGGCTCAGGGTTAAACAGCTAGCTCTCTAGTTGAGACACACCTTAGAGAGGGTTTGG 2316
Db 1081 CCAGGCTCAGGGTTAAACAGCTAGCTCTCTAGTTGAGACACACCTTAGAGAGGGTTTGG 1140
Qy 2317 GAGCTGAATAACTCAGTCACTGGTTTCCATCTCTTAAGCCCTTAACTGCAAGTTCG 2376
Db 1141 GAGCTGAATAACTCAGTCACTGGTTTCCATCTCTTAAGCCCTTAACTGCAAGTTCG 1200
Qy 2377 TTTAAATGCTAGCTCTGATGGGAGTTTCTAGGATGAACACTCTCCATGGATTTGAC 2436
Db 1201 TTTAAATGCTAGCTCTGATGGGAGTTTCTAGGATGAACACTCTCCATGGATTTGAC 1260
Qy 2437 ATATG--ACTTATTGTAGGGGAGAGTCTCTGAGGGGCAACACACAGAGCCAGGTCCCC 2494
Db 1261 ATATGAAAGTTATTTGTAGGGGAGAGTCTCTGAGGGGCAACACACAGAGCCAGGTCCCC 1320
Qy 2495 TCAGCCACAGCACTGTCTTTTGTGATCCACCCCCCTTTTACCTTTTATCAGGATGTG 2554
Db 1321 TCAGCCACAGCACTGTCTTTTGTGATCCACCCCCCTTTTACCTTTTATCAGGATGTG 1380
Qy 2555 GCTGTGTGCTCTCTGTTGGCATCACAGAGACAGGCAATTTAAATTTTAACTTTT 2614
Db 1381 GCTGTGTGCTCTCTGTTGGCATCACAGAGACAGGCAATTTAAATTTTAACTTTT 1440
Qy 2615 ATTTAAAGAGTAGAGGGAATCCATTGTAGCTTTTCTGTTGGTGTCTTAATTTTGG 2674
Db 1441 ATTTAAAGAGTAGAGGGAATCCATTGTAGCTTTTCTGTTGGTGTCTTAATTTTGG 1500
Qy 2675 GTAGGGTGGGGATCCCAACAAATCAGGTCCCTGAGATAGCTGGTCAATTTGGGCTGATCA 2734
Db 1501 GTAGGGTGGGGATCCCAACAAATCAGGTCCCTGAGATAGCTGGTCAATTTGGGCTGATCA 1560
Qy 2735 TTGCCAGAAATCTTCTCTCTGGGCTGCGCCCCCCCCAAATGCTTAACCCAGAGACCTTGG 2794
Db 1561 TTGCCAGAAATCTTCTCTCTGGGCTGCGCCCCCCCCAAATGCTTAACCCAGAGACCTTGG 1620
Qy 2795 AAATTTCTACTCATCCCAAAATGATAATTCCAAATGCTTTTACCACAGGTGAGGGTGTGAA 2854

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 15, 2005, 20:49:38 ; Search time 1922 Seconds
(without alignments)

10998.333 Million cell updates/sec

Title: US-09-605-783A-110

Perfect score: 3410

Sequence: 1 gggaaacagctgcagcgc.....aaaaaaaaaaaaaaaa 3410

Scoring table: OLIGO_NUC

Gapop 60.0 , Gapext 60.0

Searched: 6046767 seqs, 3099530249 residues

Word size : 30

Total number of hits satisfying chosen parameters: 95597

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications NA:*

```

1: /cgn2_6/ptodata/1/pubpna/PCT NEW PUB.seq.*
2: /cgn2_6/ptodata/1/pubpna/PCT NEW PUB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW PUB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US07_NEW PUB.seq.*
6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW PUB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
11: /cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
12: /cgn2_6/ptodata/1/pubpna/US09_NEW PUB.seq.*
13: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
14: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
15: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
17: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
21: /cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
22: /cgn2_6/ptodata/1/pubpna/US10_NEW PUB.seq.*
23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
24: /cgn2_6/ptodata/1/pubpna/US11_NEW PUB.seq.*
25: /cgn2_6/ptodata/1/pubpna/US60_NEW PUB.seq.*
26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3410	100.0	3410	9	US-09-745-288-100
2	3410	100.0	3410	9	US-09-759-143-110
3	3410	100.0	3410	9	US-09-780-669-110
4	3410	100.0	3410	9	US-09-030-606-110
5	3410	100.0	3410	9	US-09-822-827-110
6	3410	100.0	3410	9	US-09-115-453-110
7	3410	100.0	3410	9	US-09-232-880-110

8	3410	100.0	3410	9	US-09-895-793-110	Sequence 110, App
9	3410	100.0	3410	9	US-09-895-814-110	Sequence 110, App
10	3410	100.0	3410	13	US-10-012-896-110	Sequence 110, App
11	3410	100.0	3410	14	US-10-010-940-110	Sequence 110, App
12	3410	100.0	3410	16	US-10-144-678A-110	Sequence 110, App
13	3410	100.0	3410	16	US-10-294-025-110	Sequence 110, App
14	3410	100.0	3410	18	US-10-453-919-100	Sequence 100, App
15	3410	100.0	3410	19	US-10-688-838-110	Sequence 110, App
16	2970	87.1	3320	21	US-09-838-785-1	Sequence 1, Appli
17	2919	85.6	3332	21	US-10-936-626-21	Sequence 21, Appl
18	2919	85.6	3332	21	US-10-938-061-21	Sequence 21, Appl
19	2441	71.6	2582	17	US-10-295-027-901	Sequence 901, App
20	1919	56.3	2152	9	US-09-841-894-16	Sequence 16, Appl
21	1859	54.5	2904	9	US-09-759-143-703	Sequence 703, App
22	1859	54.5	2904	9	US-09-780-669-703	Sequence 703, App
23	1859	54.5	2904	9	US-09-822-827-703	Sequence 703, App
24	1859	54.5	2904	9	US-09-895-793-703	Sequence 703, App
25	1859	54.5	2904	9	US-09-895-814-703	Sequence 703, App
26	1859	54.5	2904	13	US-10-012-896-703	Sequence 703, App
27	1859	54.5	2904	16	US-10-144-678A-703	Sequence 703, App
28	1859	54.5	2904	16	US-10-294-025-703	Sequence 703, App
29	1739	51.0	2143	9	US-09-841-894-15	Sequence 15, Appl
30	1739	51.0	4034	9	US-09-759-143-704	Sequence 704, App
31	1739	51.0	4034	9	US-09-780-669-704	Sequence 704, App
32	1739	51.0	4034	9	US-09-822-827-704	Sequence 704, App
33	1739	51.0	4034	9	US-09-895-793-704	Sequence 704, App
34	1739	51.0	4034	9	US-09-895-814-704	Sequence 704, App
35	1739	51.0	4034	13	US-10-012-896-704	Sequence 704, App
36	1739	51.0	4034	16	US-10-144-678A-704	Sequence 704, App
37	1739	51.0	4034	16	US-10-294-025-704	Sequence 704, App
38	1707	50.1	4894	9	US-09-759-143-702	Sequence 702, App
39	1707	50.1	4894	9	US-09-780-669-702	Sequence 702, App
40	1707	50.1	4894	9	US-09-822-827-702	Sequence 702, App
41	1707	50.1	4894	9	US-09-895-793-702	Sequence 702, App
42	1707	50.1	4894	9	US-09-895-814-702	Sequence 702, App
43	1707	50.1	4894	13	US-10-012-896-702	Sequence 702, App
44	1707	50.1	4894	16	US-10-144-678A-702	Sequence 702, App
45	1707	50.1	4894	16	US-10-294-025-702	Sequence 702, App

ALIGNMENTS

RESULT 1

US-09-745-288-100
; Sequence 100, Application US/09745288
; Patent No. US20010018058A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.446D1
; CURRENT APPLICATION NUMBER: US/09/745,288
; CURRENT FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-745-288-100

Query Match		100.0%;	Score 3410;	DB 9;	Length 3410;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 3410;		Conservative	0;	Mismatches	0;
				Indels	0;
				Gaps	0;
Qy	1	GGGAACAGCGCTGCAGCGCTCGGCTCGGGTGACAGCCGCGCTCGGCAGGATCTGA	60		
Db	1	GGGAACAGCGCTGCAGCGCTCGGCTCGGGTGACAGCCGCGCTCGGCAGGATCTGA	60		
Qy	61	GTGATGAGACGCTGTCCCACTAGAGTGTCCCAACAGCAGCAGGTGTTGAGCATGGGCTGAG	120		

Db 61 GTGATGAGAGCTGTCCCACTGAGTGCCTCCACAGCAGCAGGTGTGAGCATGGGCTGAG 120
 QY 121 AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCTGGCTGATTTCTTAGGACGTT 180
 Db 121 AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCTGGCTGATTTCTTAGGACGTT 180
 QY 181 GCGCGCAGCAGAGGAGAGGCGCGAGCTTTCTGGAGCAGAGCCGAGAGCAAGACGTTCTG 240
 Db 181 GCGCGCAGCAGAGGAGAGGCGCGAGCTTTCTGGAGCAGAGCCGAGAGCAAGACGTTCTG 240
 QY 241 GAGTCCCTGAACGGCCCCCTGAGCCCTACCGCCCTGGCCCACTATGCTGTCAGAGGCTGTG 300
 Db 241 GAGTCCCTGAACGGCCCCCTGAGCCCTACCGCCCTGGCCCACTATGCTGTCAGAGGCTGTG 300
 QY 301 GGTGAGCCGCTGCTGGCGCACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAAACCTT 360
 Db 301 GGTGAGCCGCTGCTGGCGCACCGGAAAGCCAGCTCTTGTGCTCAACCTGCTAAACCTT 360
 QY 361 TGGCCTGGAGGTGTGTTTGGCGCAGGCACTACCTATGTGCGCCTCTGCTGCTGGAAGT 420
 Db 361 TGGCCTGGAGGTGTGTTTGGCGCAGGCACTACCTATGTGCGCCTCTGCTGCTGGAAGT 420
 QY 421 GGGGTGAGAGGAAGTTCAAGCACTGCTGGGCAATGGTCCAGTGTGGGCTGGT 480
 Db 421 GGGGTGAGAGGAAGTTCAAGCACTGCTGGGCAATGGTCCAGTGTGGGCTGGT 480
 QY 481 CTGTGTCCTGCTCCTAGGCTCAGCAGTGACCACTGGGCTGAGCCTATGCGCCGCG 540
 Db 481 CTGTGTCCTGCTCCTAGGCTCAGCAGTGACCACTGGGCTGAGCCTATGCGCCGCG 540
 QY 541 GCCCTTCATCTGGGCACTGCTCTGGGCACTGCTGAGCCTCTTCTCATCCCAAGGSC 600
 Db 541 GCCCTTCATCTGGGCACTGCTCTGGGCACTGCTGAGCCTCTTCTCATCCCAAGGSC 600
 QY 601 GGGCTGGCTAGCAGGCTGCTGTGCCCGGATCCAGGCCCTTGAGCTGGCACTGCTCAT 660
 Db 601 GGGCTGGCTAGCAGGCTGCTGTGCCCGGATCCAGGCCCTTGAGCTGGCACTGCTCAT 660
 QY 661 CTTGGGCTGGGCTGCTGGACTCTGTGGCCAGGTGCTTCACTCCACTGGAGGCCCT 720
 Db 661 CTTGGGCTGGGCTGCTGGACTCTGTGGCCAGGTGCTTCACTCCACTGGAGGCCCT 720
 QY 721 GCTCTCTGACCTTTCCGGGACCCGGACCACTGTGCCAGGCTACTGCTGCTATGCTT 780
 Db 721 GCTCTCTGACCTTTCCGGGACCCGGACCACTGTGCCAGGCTACTGCTGCTATGCTT 780
 QY 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGAGCTGGACACCA 840
 Db 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGAGCTGGACACCA 840
 QY 841 TGCCCTGGCCCTACCTGGGACCCGAGGAGTGCCTTTTGGCCTGCTCACCTCAT 900
 Db 841 TGCCCTGGCCCTACCTGGGACCCGAGGAGTGCCTTTTGGCCTGCTCACCTCAT 900
 QY 901 CTTCTCTACCTGCTGAGCAGCCACACTGCTGCTGAGGAGGAGGCTGGGCCCCAC 960
 Db 901 CTTCTCTACCTGCTGAGCAGCCACACTGCTGCTGAGGAGGAGGCTGGGCCCCAC 960
 QY 961 CGAGCAGAGAGGGCTGTGGGCCCTCTTGTGGCCCACTGCTGCTCATGCGGGC 1020
 Db 961 CGAGCAGAGAGGGCTGTGGGCCCTCTTGTGGCCCACTGCTGCTCATGCGGGC 1020
 QY 1021 CGGCTTGGCTTTCGGGAACCTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGCTGCG 1080
 Db 1021 CGGCTTGGCTTTCGGGAACCTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGCTGCG 1080
 QY 1081 CATGCCCGCACCTTGGCCCGGCTCTTCTGCTGAGCTGTGCACTGGCACTCAT 1140
 Db 1081 CATGCCCGCACCTTGGCCCGGCTCTTCTGCTGAGCTGTGCACTGGCACTCAT 1140
 QY 1141 GACCTTCAGCTGTTTACACGGAATTCGTGGGCGAGGGCTGTACACAGGCGTGGCCAG 1200

Db 1141 GACCTTCAGCTGTTTACACGGAATTCGTGGGCGAGGGGCTGTACACAGGCGTGGCCAG 1200
 QY 1201 AGCTTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGCTTCCGATGGGAGGCT 1260
 Db 1201 AGCTTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGCTTCCGATGGGAGGCT 1260
 QY 1261 GGGGCTGTCTGCTGAGTGGCCCATCTCCCTGGTCTTCTCTGTGTCATGAGACGGGCTGGT 1320
 Db 1261 GGGGCTGTCTGCTGAGTGGCCCATCTCCCTGGTCTTCTCTGTGTCATGAGACGGGCTGGT 1320
 QY 1321 GCAGGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGAGCTTTCCCTGTGGCTGC 1380
 Db 1321 GCAGGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGAGCTTTCCCTGTGGCTGC 1380
 QY 1381 CGGTGCCACATGCTGCTGCCACAGTGTGGCCGTGGTGACAGCTTTCAGCGGCCCTCACCGG 1440
 Db 1381 CGGTGCCACATGCTGCTGCCACAGTGTGGCCGTGGTGACAGCTTTCAGCGGCCCTCACCGG 1440
 QY 1441 GTTCACTTCTCAGCCCTGACAGTCTGCTGCCCTACACTGAGCTTCCCTTACCAACCGGA 1500
 Db 1441 GTTCACTTCTCAGCCCTGACAGTCTGCTGCCCTACACTGAGCTTCCCTTACCAACCGGA 1500
 QY 1501 GAAGCAGGTGTCTGCTGCCAAATACCGAGGGGAACACTGGAGGTGCTAGCAGTGAAGACAG 1560
 Db 1501 GAAGCAGGTGTCTGCTGCCAAATACCGAGGGGAACACTGGAGGTGCTAGCAGTGAAGACAG 1560
 QY 1561 CCTGATGACCACTGCTGCTGCCAGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
 Db 1561 CCTGATGACCACTGCTGCTGCCAGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
 QY 1621 GGGTGTGGAGGAGTGGCTGCTGCCACCTCCACCTCCAGCCGCTCTGCGGGGCTCTGCGCTG 1680
 Db 1621 GGGTGTGGAGGAGTGGCTGCTGCCACCTCCAGCCGCTCTGCGGGGCTCTGCGCTG 1680
 QY 1681 TGATGTCTCCGTAGCTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCG 1740
 Db 1681 TGATGTCTCCGTAGCTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCG 1740
 QY 1741 GGGCATCTGCTGACCTCGCCATCTGGATAGTGGCTTCTGCTGCCAGGTGGGCC 1800
 Db 1741 GGGCATCTGCTGACCTCGCCATCTGGATAGTGGCTTCTGCTGCCAGGTGGGCC 1800
 QY 1801 ATCCCTGTTATGGGCTCCATTTGCTCAGCTCAGCCAGTCTGTCTCATGCTCATATGCTGTC 1860
 Db 1801 ATCCCTGTTATGGGCTCCATTTGCTCAGCTCAGCCAGTCTGTCTCATATGCTGTC 1860
 QY 1861 TGCCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGGTAGTATTTGACAGAG 1920
 Db 1861 TGCCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGGTAGTATTTGACAGAG 1920
 QY 1921 CGACTTGGCCAAATACTCAGCGTAGAAAACTTCCAGCACATTTGGGGTGGAGGGCTGCT 1980
 Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAACTTCCAGCACATTTGGGGTGGAGGGCTGCT 1980
 QY 1981 CACTGGGTCCAGCTCCCGCTCTGTTAGCCCCCATGGGGTGGCCGGCTGGCCGCTGCT 2040
 Db 1981 CACTGGGTCCAGCTCCCGCTCTGTTAGCCCCCATGGGGTGGCCGGCTGGCCGCTGCT 2040
 QY 2041 TTCTGTTGCTGCCAAAGTAAATGTTGGCTCTGCTGCTGCCACCTCTGCTGAGGTGGCTA 2100
 Db 2041 TTCTGTTGCTGCCAAAGTAAATGTTGGCTCTGCTGCTGCCACCTCTGCTGAGGTGGCTA 2100
 QY 2101 GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 Db 2101 GCTGCACAGCTGGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
 QY 2161 ACTGGAGGCTTCCAAAGGGGTTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGCTCC 2220
 Db 2161 ACTGGAGGCTTCCAAAGGGGTTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGCTCC 2220
 QY 2221 ATGCACTGGGAATGGGGGACTCTGACGTGATTTACCCAGGCTCAGGGCTTAACAGCTAGC 2280
 Db 2221 ATGCACTGGGAATGGGGGACTCTGACGTGATTTACCCAGGCTCAGGGCTTAACAGCTAGC 2280

```
Qy 2281 CTCCTAGTTGAGACACACCTAGAGAAGGGTTTTGGGAGCTGAATAAAGTCAAGTCACTG 2340
Db 2281 CTCCTAGTTGAGACACACCTAGAGAAGGGTTTTGGGAGCTGAATAAAGTCAAGTCACTG 2340
Qy 2341 GTTTCCTATCTTAAGCCCTTAACCTGCAGCTCGTTGTTAATGTAGCTCTTGCAATGGAG 2400
Db 2341 GTTTCCTATCTTAAGCCCTTAACCTGCAGCTCGTTGTTAATGTAGCTCTTGCAATGGAG 2400
Qy 2401 TTTCTAGATGAACACCTCTCCATGGATTGAACATATATGACTATTGTAGGGGAAGA 2460
Db 2401 TTTCTAGATGAACACCTCTCCATGGATTGAACATATATGACTATTGTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAAGAACACAGGTCCCTCAGCCACACAGCACTGTCTTTTGGCT 2520
Db 2461 GTCTGAGGGGCAACACACAAGAACACAGGTCCCTCAGCCACACAGCACTGTCTTTTGGCT 2520
Qy 2521 GATCACCCCTCTTACCTTTATCAGGATGGGCTGTGGTCTTCTGTGTCATCA 2580
Db 2521 GATCACCCCTCTTACCTTTATCAGGATGGGCTGTGGTCTTCTGTGTCATCA 2580
Qy 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGGAATCCAT 2640
Db 2581 CAGAGACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATCCCCAAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATCCCCAAACAATCA 2700
Qy 2701 GGTCCCTCGAGATAGCTGTGATTTGGGCTGATCATATGCCAGAAATCTTCTTCTCTGGGT 2760
Db 2701 GGTCCCTCGAGATAGCTGTGATTTGGGCTGATCATATGCCAGAAATCTTCTTCTCTGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAAATTTCTACTCATCCCAATGATAAT 2820
Qy 2821 TCCAAATGCTTTACCCAAAGTTAGGTTGTTGAAGGAAGGTAGAGGTTGGGGCTTTCAGGT 2880
Db 2821 TCCAAATGCTTTACCCAAAGTTAGGTTGTTGAAGGAAGGTAGAGGTTGGGGCTTTCAGGT 2880
Qy 2881 CTCAAAGGCTTCCCTAACACCCCTCTTCTTCTGGCCAGCTGGTTGGCCCACTTCCA 2940
Db 2881 CTCAAAGGCTTCCCTAACACCCCTCTTCTTCTGGCCAGCTGGTTGGCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTAGACTGGGCTGATGAAGGCACTGCCAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTAGACTGGGCTGATGAAGGCACTGCCAAATTTCCCTTACC 3000
Qy 3001 CCACACTTTTCCCTTACCCCAACTTTTCCCAACAGCTCCCAACCTGTTTGGAGTACT 3060
Db 3001 CCACACTTTTCCCTTACCCCAACTTTTCCCAACAGCTCCCAACCTGTTTGGAGTACT 3060
Qy 3061 GCAGGACAGAAAGTGGGTTTCCCAAGCTTTTCCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGGACAGAAAGTGGGTTTCCCAAGCTTTTCCATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTCTGGGGAATCTCACAGAAACTCAGAGCAACCCCTGCCTGAGCTAAGG 3180
Db 3121 ATATCTGTCTGGGGAATCTCACAGAAACTCAGAGCAACCCCTGCCTGAGCTAAGG 3180
Qy 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTGGCTTTTGAATATATGTCGTTATTATT 3240
Db 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTGGCTTTTGAATATATGTCGTTATTATT 3240
Qy 3241 TAGCGGGGTGAATATTTTATATCTAAGTAGGCAATCAGAGTATAATGTTTATGGTGACA 3300
Db 3241 TAGCGGGGTGAATATTTTATATCTAAGTAGGCAATCAGAGTATAATGTTTATGGTGACA 3300
Qy 3301 AAATTAAGGCTTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
Db 3301 AAATTAAGGCTTTCTTATATGTTTAAATTAATTAATTAATTAATTAATTAATTAATTAAT 3360
```

```
Qy 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410

RESULT 2
US-09-759-143-110
; Sequence 110, Application US/09759143
; Patent No. US200202248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mittham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-110

Query Match 100.0%; Score 3410; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACAGCTCTCAGCGCTGCTCGGGTGACAGCGCGCTCGGCAGGATCTGA 60
Db 1 GGGAAACAGCTCTCAGCGCTGCTCGGGTGACAGCGCGCTCGGCAGGATCTGA 60
Qy 61 GTGATGAGAGCTGTCCCTCACTGAGGTGCCCCACAGCAGCAGGTTTTCAGCATGGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCTCACTGAGGTGCCCCACAGCAGCAGGTTTTCAGCATGGGCTGAG 120
Qy 121 AAGCTGGAACCGGACCAAGAGGCTGCGAGAAATGGGGCTTGGCTGATTCCTAGGCAAGTT 180
Db 121 AAGCTGGAACCGGACCAAGAGGCTGCGAGAAATGGGGCTTGGCTGATTCCTAGGCAAGTT 180
Qy 181 GCGGAGCAAGAGGAGGAGGCGCGAGCTTCTGAGCAGAGCCGAGACGAGCAAGTCTG 240
Db 181 GCGGAGCAAGAGGAGGAGGCGCGAGCTTCTGAGCAGAGCCGAGACGAGCAAGTCTG 240
Qy 241 GAGTGTCTGAAACCGGCGCCCTGAGCCCTACCGGCTGGCCCACTATGCTCCAGAGGCTGTG 300
Db 241 GAGTGTCTGAAACCGGCGCCCTGAGCCCTACCGGCTGGCCCACTATGCTCCAGAGGCTGTG 300
Qy 301 GGTGAGCGGCTGCTGGGCAACCGGAAAGCCAGCTTCTGCTGGTCAACCTGCTAACCTT 360
Db 301 GGTGAGCGGCTGCTGGGCAACCGGAAAGCCAGCTTCTGCTGGTCAACCTGCTAACCTT 360
Qy 361 TGGCTTGGAGGCTGTTTGGCCGAGCATCACTATGTCGCGCTCTGCTGCTGGAAGT 420
Db 361 TGGCTTGGAGGCTGTTTGGCCGAGCATCACTATGTCGCGCTCTGCTGCTGGAAGT 420
Qy 421 GGGGAGAGGAGGAAGTTTATGACCATGCTGGGCAATGGTCCAGTGTGGGCTGGT 480
```


Db 421 ||||| GGGGGTAGAGGAAATTCATGACATGGTGTGGGCAATTGGTCAGTGTGGGCTGGT 480
Qy 481 CTGTGCTCCGCTCTTAGGCTCAGCAGTAGACACCTAGGCGTGAGACGCTATGGCGCGCGG 540
Db 481 CTGTGCTCCGCTCTTAGGCTCAGCAGTAGACACCTAGGCGTGAGACGCTATGGCGCGCGG 540
Qy 541 GCCCTTCATCTGGGGCACTGTCTTGGGCATCCTGCTGAGCCCTCTTTCTCATCCCAAGGGC 600
Db 541 GCCCTTCATCTGGGCACCTGTCTTGGGCATCCTGCTGAGCCCTCTTTCTCATCCCAAGGGC 600
Qy 601 CGGCTGGCTAGAGGGCTGTGTGCCCGATCCCGGATCCAGGCCCTTGAGCTGGCACTGCTCAT 660
Db 601 CGGCTGGCTAGAGGGCTGTGTGCCCGATCCCGGATCCAGGCCCTTGAGCTGGCACTGCTCAT 660
Qy 661 CCTGGGCGTGGGGCTGTGGACTCTGTGGCCAGGTGTCTTCACTCCACCTGGAGGCCCT 720
Db 661 CCTGGGCGTGGGGCTGTGGACTCTGTGGCCAGGTGTCTTCACTCCACCTGGAGGCCCT 720
Qy 721 GCTCTCTGACCTTTCCGGGACCCGGACCACTGTGCCAGGCGCTACTCTGTCTATGCCCTT 780
Db 721 GCTCTCTGACCTTTCCGGGACCCGGACCACTGTGCCAGGCGCTACTCTGTCTATGCCCTT 780
Qy 781 CATGATCAGCTTTGGGGCTGTGGGCTA CTTCTGCTGCTGCATTTGACTGGGACACGAG 840
Db 781 CATGATCAGCTTTGGGGCTGTGGGCTA CTTCTGCTGCTGCATTTGACTGGGACACGAG 840
Qy 841 TGCCCTGGCCCCCTACCTAGGAGCCAGGAGAGTGCTTTTGGCCCTGCTCACCCCTCAT 900
Db 841 TGCCCTGGCCCCCTACCTAGGAGCCAGGAGAGTGCTTTTGGCCCTGCTCACCCCTCAT 900
Qy 901 CTTCTCTACCTGCTAGCAGCCACACTGCTGTGTGGCTGAGGAGGAGCGCTGGGCCCCAC 960
Db 901 CTTCTCTACCTGCTAGCAGCCACACTGCTGTGTGGCTGAGGAGGAGCGCTGGGCCCCAC 960
Qy 961 CGAGCCAGCAGAGGGCTGTGGCCCCCTCTTGTGTGCCCACTGCTGTCCATGCGCGGGC 1020
Db 961 CGAGCCAGCAGAGGGCTGTGGCCCCCTCTTGTGTGCCCACTGCTGTCCATGCGCGGGC 1020
Qy 1021 CGGCTTGGCTTTCCGGAACTGGGGCCCTGCTTCCCGGCTGCACACAGCTGTGTCGCG 1080
Db 1021 CGGCTTGGCTTTCCGGAACTGGGGCCCTGCTTCCCGGCTGCACACAGCTGTGTCGCG 1080
Qy 1081 CATGCCCGCACCCCTCGCGCGGCTCTTGTGTGGCTGAGCTGTGCAGCTGGATGGCACTCAT 1140
Db 1081 CATGCCCGCACCCCTCGCGCGGCTCTTGTGTGGCTGAGCTGTGCAGCTGGATGGCACTCAT 1140
Qy 1141 GACCTTCAGCTGTTTACAGGATTTCTGTGGCGAGGGGCTGTACAGGGCGGTGCCAG 1200
Db 1141 GACCTTCAGCTGTTTACAGGATTTCTGTGGCGAGGGGCTGTACAGGGCGGTGCCAG 1200
Qy 1201 AGCTGAGCCGGGACCGAGGCCCGGAGACACTATGATGAAGCGTTCCGGATGGGCGAGCCT 1260
Db 1201 AGCTGAGCCGGGACCGAGGCCCGGAGACACTATGATGAAGCGTTCCGGATGGGCGAGCCT 1260
Qy 1261 GGGGCTGTTCTGCACTGCGGCACTCTCCCTGGTCTTCTCTCTGCTCATGAGACCGGCTGT 1320
Db 1261 GGGGCTGTTCTGCACTGCGGCACTCTCCCTGGTCTTCTCTCTGCTCATGAGACCGGCTGT 1320
Qy 1321 CGAGGGATTCGGCACTCAGAGCTCTATTTGGCCAGTGTGGGAGCTTTCCCTGTGGTGC 1380
Db 1321 CGAGGGATTCGGCACTCAGAGCTCTATTTGGCCAGTGTGGGAGCTTTCCCTGTGGTGC 1380
Qy 1381 CGGTGCCACATGCTGCTCCACAGTGTGGCGTGTGAGACCTTCAGCGCCCTCACCGG 1440
Db 1381 CGGTGCCACATGCTGCTCCACAGTGTGGCGTGTGAGACCTTCAGCGCCCTCACCGG 1440
Qy 1441 GTTCACTTCTCAGCCCTGCAGATCCTGCCCTTACACACTGCGCTCCTTACCAACCGGGA 1500
Db 1441 GTTCACTTCTCAGCCCTGCAGATCCTGCCCTTACACACTGCGCTCCTTACCAACCGGGA 1500
Qy 1501 GAAGCAGTGTCTGCGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560

Db 1501 GAAGCAGTGTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Qy 1561 CCTGATACCAAGCTTCTGTCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTTAATGGACAGT 1620
Db 1561 CCTGATACCAAGCTTCTGTCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTTAATGGACAGT 1620
Qy 1621 GGGTGTGGAGGAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db 1621 GGGTGTGGAGGAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCG 1740
Db 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGGCG 1740
Qy 1741 GGGCATCTGCTGACCTCGCATCTCGCATCTTGTGAGTGTCTGCTGCTGCCAGGTGGCCCC 1800
Db 1741 GGGCATCTGCTGACCTCGCATCTCGCATCTTGTGAGTGTCTGCTGCTGCCAGGTGGCCCC 1800
Qy 1801 ATCCCTGTTATGGGCTCCATTGTCCAGCTCAGCCAGCTGTGCTCATATATGGTGTG 1860
Db 1801 ATCCCTGTTATGGGCTCCATTGTCCAGCTCAGCCAGCTGTGCTCATATATGGTGTG 1860
Qy 1861 TGCCGCAAGGCTGGTCTGTGCGCATTTACTTTGCTTACACAGGTAGTATTTGACAGAG 1920
Db 1861 TGCCGCAAGGCTGGTCTGTGCGCATTTACTTTGCTTACACAGGTAGTATTTGACAGAG 1920
Qy 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATTTCCAGCACATTTGGGGTGGAGGGCTGCT 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATTTCCAGCACATTTGGGGTGGAGGGCTGCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCCTGTTAGCCCCCATGGGCTGCCGGCTGCCGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCCTGTTAGCCCCCATGGGCTGCCGGCTGCCGCCAGT 2040
Qy 2041 TTCTGTTGCTGCCAAAGTAAATGTGGCTCTGTGCTGCCACCTGTGCTGTGAGGTGCGTA 2100
Db 2041 TTCTGTTGCTGCCAAAGTAAATGTGGCTCTGTGCTGCCACCTGTGCTGTGAGGTGCGTA 2100
Qy 2101 GCTCACAGCTGGGGGCTGGGGCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db 2101 GCTCACAGCTGGGGGCTGGGGCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGAGCGCTTCCAAAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAAGAGGCTCC 2220
Db 2161 ACTGAGCGCTTCCAAAGGGGTTTCACTGTGGACTTATACAGGAGGCGCAAGAGGCTCC 2220
Qy 2221 ATGCACCTGGAATGGGGGACTCTGCAAGTGGATTTACCGAGGCTCAGGGTTAAACAGCTAGC 2280
Db 2221 ATGCACCTGGAATGGGGGACTCTGCAAGTGGATTTACCGAGGCTCAGGGTTAAACAGCTAGC 2280
Qy 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGGAATAAACTCAGTCAACCTG 2340
Db 2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGGAATAAACTCAGTCAACCTG 2340
Qy 2341 GTTTCCTCATCTCTAAGCCCCCTTAACTGCACTGCTGCTTAACTGATAGCTCTTTGCAATGGAG 2400
Db 2341 GTTTCCTCATCTCTAAGCCCCCTTAACTGCACTGCTGCTTAACTGATAGCTCTTTGCAATGGAG 2400
Qy 2401 TTTCTAGATGAACACACTCTCCATGGGATTTGAACATATGACTTATTTGTTAGGGGAAGA 2460
Db 2401 TTTCTAGATGAACACACTCTCCATGGGATTTGAACATATGACTTATTTGTTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAAGAACACGAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Db 2461 GTCTGAGGGGCAACACACAAGAACACGAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Qy 2521 GATCCACCCCCCTTACCTTTTATCAGGATGTGGCTGTGCTGCTTCTGTTGCAATCA 2580
Db 2521 GATCCACCCCCCTTACCTTTTATCAGGATGTGGCTGTGCTGCTTCTGTTGCAATCA 2580
Qy 2581 CAGAGACACAGGCAATTTAAATATTTTAACTTATTTTAAACAAGTAGAGGGAATCCAT 2640
Db 2581 CAGAGACACAGGCAATTTAAATATTTTAACTTATTTTAAACAAGTAGAGGGAATCCAT 2640

```
Qy 2641 TGCTAGCTTTCTGTGTTGGTCTAAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Db 2641 TGCTAGCTTTCTGTGTTGGTCTAAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Qy 2701 GGTCCCTGAGTAGCTGCTCATTTGGGCTGATCATTCAGCAATCTTCTCTGGGGT 2760
Db 2701 GGTCCCTGAGTAGCTGCTCATTTGGGCTGATCATTCAGCAATCTTCTCTGGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAATTTCTACTCATCCCAAAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTGGAATTTCTACTCATCCCAAAATGATAAT 2820
Qy 2821 TCCAAATGCTTTACCCAAAGGTTAGGGTGTGAAGGAAGGTAGAGGGTGGGGTTCAGGT 2880
Db 2821 TCCAAATGCTTTACCCAAAGGTTAGGGTGTGAAGGAAGGTAGAGGGTGGGGTTCAGGT 2880
Qy 2881 CTCACGGCTTCCCTAACCAACCCCTCTCTCTTGGCCCGAGCTGGTTCCTCCCACTTCCA 2940
Db 2881 CTCACGGCTTCCCTAACCAACCCCTCTCTCTTGGCCCGAGCTGGTTCCTCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTTAGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTTAGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCTTTTGGAGTACT 3060
Db 3001 CCCAACTTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCTTTTGGAGTACT 3060
Qy 3061 GCAGGACGAGACACAAAGTGGGTTTCCCAAGCTTTTCCCAAGCTTTTGGAGTACT 3120
Db 3061 GCAGGACGAGACACAAAGTGGGTTTCCCAAGCTTTTCCCAAGCTTTTGGAGTACT 3120
Qy 3121 ATATCTGTGCTTGGGGAATCTCACAGAACTCAGAGGACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTTGGGGAATCTCACAGAACTCAGAGGACCCCTGCTGAGCTAAGG 3180
Qy 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTGCCTTTTGAATAATATGCTTATTATT 3240
Db 3181 GAGTCTTATCTCTCAGGGGGGTTAAGTGCCTTTTGAATAATATGCTTATTATT 3240
Qy 3241 TAGCGGGTGAATATTTATCTGTAAGTGAGCAATCAGAGTATAATTTATGGTGACA 3300
Db 3241 TAGCGGGTGAATATTTATCTGTAAGTGAGCAATCAGAGTATAATTTATGGTGACA 3300
Qy 3301 AAATTAAGGCTTCTTATATGTTTAAATAAATAAATAAATAAATAAATAAATAA 3360
Db 3301 AAATTAAGGCTTCTTATATGTTTAAATAAATAAATAAATAAATAAATAAATAA 3360
Qy 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
```

RESULT 3

```
US-09-780-669-110
; Sequence 110, Application US/09780669
; Patent No. US2002005197A1
```

GENERAL INFORMATION:

```
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriek
; APPLICANT: Li, Samuel
```

```
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
```

```
; FILE REFERENCE: 210121.427C24
```

```
; CURRENT APPLICATION NUMBER: US/09/780.669
```

```
; CURRENT FILING DATE: 2001-02-09
```

```
; NUMBER OF SEQ ID NOS: 943
```

```
; SOFTWARE: FastSeq for Windows Version 3.0
```

```
; SEQ ID NO 110
```

```
; LENGTH: 3410
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapien
```

```
US-09-780-669-110
```

```
Query Match 100.0%; Score 3410; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGAAACAGCTGCAACGCGCTGCTCCGGGTGACAGCCGCGCGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACAGCTGCAACGCGCTGCTCCGGGTGACAGCCGCGCGCTCGGCCAGGATCTGA 60
Qy 61 GTGATGAGAGTGTGCCCACTGAGGTGCCCCACAGCAGCAGGAGTGTTCAGCATGGCTGAG 120
Db 61 GTGATGAGAGTGTGCCCACTGAGGTGCCCCACAGCAGCAGGAGTGTTCAGCATGGCTGAG 120
Qy 121 AAGCTGACCGCGCACCAAAAGGGTGTGCAGAAATGGGCGCTTGGCTGATTCCTAGGCAGTT 180
Db 121 AAGCTGACCGCGCACCAAAAGGGTGTGCAGAAATGGGCGCTTGGCTGATTCCTAGGCAGTT 180
Qy 181 GGGCGCAGCAAGGAGGAGAGGGCGCAGCTTCTGAGAGCAGAGCCGAGACGAGAGTCTG 240
Db 181 GGGCGCAGCAAGGAGGAGAGGGCGCAGCTTCTGAGAGCAGAGCCGAGACGAGAGTCTG 240
Qy 241 GAGTGTCTGAACGGCGCCCTGAGCCCTACCCGCTGCGCCACCTATGCTCAGAGGCTGTG 300
Db 241 GAGTGTCTGAACGGCGCCCTGAGCCCTACCCGCTGCGCCACCTATGCTCAGAGGCTGTG 300
Qy 301 GGTGAGCCGCTCTGCTCGGCACCGGAAAGCCAGCTCTTGTGTGCTCAACCTGCTAACTTT 360
Db 301 GGTGAGCCGCTCTGCTCGGCACCGGAAAGCCAGCTCTTGTGTGCTCAACCTGCTAACTTT 360
Qy 361 TGGCTTGGAGGTGTGTTTGGCCGAGCATCACTATGTCCCGCTCTGCTGTGGAAGT 420
Db 361 TGGCTTGGAGGTGTGTTTGGCCGAGCATCACTATGTCCCGCTCTGCTGTGGAAGT 420
Qy 421 GGGGTAGAGGAGAGTTCATGACCATGCTGGGCATTTGGTCCAGTGTGGGCTGGT 480
Db 421 GGGGTAGAGGAGAGTTCATGACCATGCTGGGCATTTGGTCCAGTGTGGGCTGGT 480
Qy 481 CTGTGTCCCGCTCTTAGGCTCAGCAGTGACCACTGGCGTGGACGCTATGTCGCCCGCG 540
Db 481 CTGTGTCCCGCTCTTAGGCTCAGCAGTGACCACTGGCGTGGACGCTATGTCGCCCGCG 540
Qy 541 GCCCTTCATCTGGGCATCTGCTTTGGGCATCTTCTGTGAGGCTCTTTCTCATCCCAAGGC 600
Db 541 GCCCTTCATCTGGGCATCTGCTTTGGGCATCTTCTGTGAGGCTCTTTCTCATCCCAAGGC 600
Qy 601 CGGCTGCTAGCAGGGCTGCTGTGCCGGATCCAGGCCCTCGAGCTGGACCTGCTCAT 660
Db 601 CGGCTGCTAGCAGGGCTGCTGTGCCGGATCCAGGCCCTCGAGCTGGACCTGCTCAT 660
Qy 661 CTGCGGCTGGGGCTGCTGGACTTCTGTGGCAGGCTGTGCTCACTCAGCTGGAGGCTCT 720
Db 661 CTGCGGCTGGGGCTGCTGGACTTCTGTGGCAGGCTGTGCTCACTCAGCTGGAGGCTCT 720
Qy 721 GCTCTCTGACCTCTTCCGGGACCCGACCACTGTGCGCCAGGCTACTTGTCTATGCTTT 780
Db 721 GCTCTCTGACCTCTTCCGGGACCCGACCACTGTGCGCCAGGCTACTTGTCTATGCTTT 780
```

Db	721	GCTCTCTGAGCCTTTCCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTCTGTATGCTT	780
Qy	781	CATGATCAGTCTTTGGGGGCTGCCCTGGGCTACCTCCTGCTGCCATTCAGCTGGGACACCAG	840
Db	781	CATGATCAGTCTTTGGGGGCTGCCCTGGGCTACCTCCTGCTGCCATTCAGCTGGGACACCAG	840
Qy	841	TGCCCTGGCCCCCTACTCTGGGCAACCCAGGAGGAGTGCTCTTTTGGCTGTCTACCCCTCAT	900
Db	841	TGCCCTGGCCCCCTACTCTGGGCAACCCAGGAGGAGTGCTCTTTTGGCTGTCTACCCCTCAT	900
Qy	901	CTTCTCTACCTGTAGCAGGCACACTGTGTGTGGCTGAGGAGGACGCGTGGGCCCCAC	960
Db	901	CTTCTCTACCTGTAGCAGGCACACTGTGTGTGGCTGAGGAGGACGCGTGGGCCCCAC	960
Qy	961	CGAGCCAGCAGAGGGGTGTGCGGCCCTCTCTGTGTGCCCCCACTGTCTCCATGTCCATGCGGGC	1020
Db	961	CGAGCCAGCAGAGGGGTGTGCGGCCCTCTCTGTGTGCCCCCACTGTCTCCATGTCCATGCGGGC	1020
Qy	1021	CCGCTTGGCTTTTCCGGAACTGGGCGGCCCTGCTTTCCCGGGCTGCACAGCTGTGCTGCCG	1080
Db	1021	CCGCTTGGCTTTTCCGGAACTGGGCGGCCCTGCTTTCCCGGGCTGCACAGCTGTGCTGCCG	1080
Qy	1081	CATGCCCGGCACCTGTGCGCGCTCTTCTGTGTGGCTGAGCTGTGACGTGTGAGATGGAATCAT	1140
Db	1081	CATGCCCGGCACCTGTGCGCGCTCTTCTGTGTGGCTGAGCTGTGACGTGTGAGATGGAATCAT	1140
Qy	1141	GACCTTCACGCTGTTTTACACGGATTTCTGTGGCGAGGGGCTGTACACAGGGCTGGCCAG	1200
Db	1141	GACCTTCACGCTGTTTTACACGGATTTCTGTGGCGAGGGGCTGTACACAGGGCTGGCCAG	1200
Qy	1201	AGCTGAGCCGGGCAACCGAGGCCCGGAGACACTATGATGAAGGGCTTCGGATGGGCAAGCCT	1260
Db	1201	AGCTGAGCCGGGCAACCGAGGCCCGGAGACACTATGATGAAGGGCTTCGGATGGGCAAGCCT	1260
Qy	1261	GGGGCTGTTCTGCAGTGCGCATCTCCCTGGTCTTCTCTGTGGCTATGAACTCCGGTGGT	1320
Db	1261	GGGGCTGTTCTGCAGTGCGCATCTCCCTGGTCTTCTCTGTGGCTATGAACTCCGGTGGT	1320
Qy	1321	GCAGCGATTGGGCACTCGACAGTCTAATTTGGCCAGTGTGGAGCTTTCCCTGTGGCTGC	1380
Db	1321	GCAGCGATTGGGCACTCGACAGTCTAATTTGGCCAGTGTGGAGCTTTCCCTGTGGCTGC	1380
Qy	1381	CGGTGCCACATCGCTGCCACAGTGTGGCGCTGGTGACAGCTTCAGCCGCCCTCACCGG	1440
Db	1381	CGGTGCCACATCGCTGCCACAGTGTGGCGCTGGTGACAGCTTCAGCCGCCCTCACCGG	1440
Qy	1441	GTTCACCTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCTCTCCTCTACACCGGGA	1500
Db	1441	GTTCACCTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCTCTCCTCTACACCGGGA	1500
Qy	1501	GAAGCAGGTGTTCTTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG	1560
Db	1501	GAAGCAGGTGTTCTTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG	1560
Qy	1561	CCTGATACACAGCTTCTCTGCGCAGGCCCTAAGACCTGGAGCTCCCTTCCTTAATGGACA	1620
Db	1561	CCTGATACACAGCTTCTCTGCGCAGGCCCTAAGACCTGGAGCTCCCTTCCTTAATGGACA	1620
Qy	1621	GGGTGTGGAGGCAAGTGGCTGTCTCCACTTCCACCGCGCTCTGCGGGGCTCTGCTG	1680
Db	1621	GGGTGTGGAGGCAAGTGGCTGTCTCCCACTTCCACCGCGCTCTGCGGGGCTCTGCTG	1680
Qy	1681	TGATGTCTCCGTACGTGTGTGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGG	1740
Db	1681	TGATGTCTCCGTACGTGTGTGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGG	1740
Qy	1741	GGGCATCTGCTGGACCTCGCCATCTCTGGATAGTGCCCTTCTGCTGTCCAGGTGGCCCC	1800
Db	1741	GGGCATCTGCTGGACCTCGCCATCTCTGGATAGTGCCCTTCTGCTGTCCAGGTGGCCCC	1800
Qy	1801	ATCCCTTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTC	1860
Db	1801	ATCCCTTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTC	1860

Qy	1861	TGCGCAGCGCTCGGTCTCGTTCGCCATTTACTTTTGCTACACAGGTAGTATTTGACAAGAG	1920
Db	1861	TGCGCAGGGCTCGGTCTCGTTCGCCATTTACTTTTGCTACACAGGTAGTATTTGACAAGAG	1920
Qy	1921	CGACTTTGGCCAAATACTCAGCGTAGAAAACTTCCAGCACATAATGGGGTGGAGGCCTGCGCT	1980
Db	1921	CGACTTTGGCCAAATACTCAGCGTAGAAAACCTTCCAGCACATAATGGGGTGGAGGCCTGCGCT	1980
Qy	1981	CACTGGGTCCCAGCTCCCGCTCCTCTTATAGCCCCCATGGGGTGCOCGGCTGGCCCGCAGT	2040
Db	1981	CACTGGGTCCCAGCTCCCGCTCCTCTGTATAGCCCCATGGGGTGCOCGGCTGGCCCGCAGT	2040
Qy	2041	TTCTGTGTGTCGCAAAAGTAATGTGGCTCTCTGCTGTCGCCACCCCTGTGCTGTGAGGTGCGTA	2100
Db	2041	TTCTGTGTGTCGCAAAAGTAATGTGGCTCTCTGCTGTCGCCACCCCTGTGCTGTGAGGTGCGTA	2100
Qy	2101	GCTGCACAGCTGGGGCTGGGGGCTCCCTCTCTCTCTCTCCCAAGTCTCTAGGGCTGCCTG	2160
Db	2101	GCTGCACAGCTGGGGCTGGGGGCTCCCTCTCTCTCTCTCTCTCTCTCTAGGGCTGCCTG	2160
Qy	2161	ACTGGAAGCCCTTCCAAGAGGGGTTTTAGTCTGGACTTATACAGGAGGCCAAGAAGGCTCC	2220
Db	2161	ACTGGAAGCCCTTCCAAGAGGGGTTTTAGTCTGGACTTATACAGGAGGCCAAGAAGGCTCC	2220
Qy	2221	ATGCACCTGGAATCGGGGACTCTGCAGGTGGATTACCAGGCTCAGGGTTAACAGCTAGC	2280
Db	2221	ATGCACCTGGAATCGGGGACTCTGCAGGTGGATTACCAGGCTCAGGGTTAACAGCTAGC	2280
Qy	2281	CTCCTAGTTGAGACACACCTTAGAAGAGGGTTTTTGGAGCTGTAATAAACTCAGTCACTCG	2340
Db	2281	CTCCTAGTTGAGACACACCTTAGAAGAGGGTTTTTGGAGCTGTAATAAACTCAGTCACTCG	2340
Qy	2341	GTITCCCATCTCAAAGCCCTTAACTGCAGCTTCGTTTTAATGTAGCTCTTGCATGGGAG	2400
Db	2341	GTITCCCATCTCAAAGCCCTTAACTGCAGCTTCGTTTTAATGTAGCTCTTGCATGGGAG	2400
Qy	2401	TTTCTAGGATGAACACTCCTCCATGGGATTTTGAAACATATGACTTATTTGTAGGGGAAGA	2460
Db	2401	TTTCTAGGATGAACACTCCTCCATGGGATTTTGAAACATATGACTTATTTGTAGGGGAAGA	2460
Qy	2461	GTCTGAGGGGCAACACACAAGAACACAGTCCCTCAGGCCACAGCACTGTCTTTTGCT	2520
Db	2461	GTCTGAGGGGCAACACACAAGAACACAGTCCCTCAGGCCACAGCACTGTCTTTTGCT	2520
Qy	2521	GATCCACCCCTCTTACCTTTTATCAGATATGGGCTGTGTGCTCTCTGTTGCCATCA	2580
Db	2521	GATCCACCCCTCTTACCTTTTATCAGATATGGGCTGTGTGCTCTCTGTTGCCATCA	2580
Qy	2581	CAGAGACACAGGCATTTAAATATTTAACCTATTATTTAAACAAAGTAGAAGGAATCCAT	2640
Db	2581	CAGAGACACAGGCATTTAAATATTTAACCTATTATTTAAACAAAGTAGAAGGAATCCAT	2640
Qy	2641	TGCTAGCTTTTCGTGTGTGCTCTAATATTTTGGGTAGGGTGGGGATCCCCAACATCA	2700
Db	2641	TGCTAGCTTTTCGTGTGTGCTCTAATATTTTGGGTAGGGTGGGGATCCCCAACATCA	2700
Qy	2701	GGTCCCTGAGATAGCTGGTCAATTGGGCTGATCATTTGCCAGAACTTTCTCTCTGGGGT	2760
Db	2701	GGTCCCTGAGATAGCTGGTCAATTGGGCTGATCATTTGCCAGAACTTTCTCTCTGGGGT	2760
Qy	2761	CTGGCCCCCAAAATGCTTAAACCCAGGACTTGGAAAATTCCTACTCATCCCAATGATAT	2820
Db	2761	CTGGCCCCCAAAATGCTTAAACCCAGGACTTGGAAAATTCCTACTCATCCCAATGATAT	2820
Qy	2821	TCCAAATGCTGTTTACCAAGGTTAGGTTGTTGAAGGAAGGTAGAGGCTGGGGCTTCAGGT	2880
Db	2821	TCCAAATGCTGTTTACCAAGGTTAGGTTGTTGAAGGAAGGTAGAGGCTGGGGCTTCAGGT	2880
Qy	2881	CTCAAGGGCTTCCCTAACCAACCCCTCTCTCTTTGGCCAGCGCTGTTTCCCCCCTTCCA	2940
Db	2881	CTCAAGGGCTTCCCTAACCAACCCCTCTCTCTTTGGCCAGCGCTGTTTCCCCCCTTCCA	2940

Db 961 CGAGCCAGCAGAAAGGGCTGTGCGCCCCCTCTGTGTGCGCCCCACACTGCTGTCCATGCCGGGC 1020
Qy 1021 CCGCTGTGCTTTCCGGAACCTTGGGCGCCCTGCTTCCCCCGGCTGCAACAGCTGTGTGCGC 1080
Db 1021 CCGCTGTGCTTTCCGGAACCTTGGGCGCCCTGCTTCCCCCGGCTGCAACAGCTGTGTGCGC 1080
Qy 1081 CATGCCCGCACCCCTGCGCCGCTTCTGCTGCTGAGCTGTGCAAGTGGACACTCAT 1140
Db 1081 CATGCCCGCACCCCTGCGCCGCTTCTGCTGCTGAGCTGTGCAAGTGGACACTCAT 1140
Qy 1141 GACCTTACAGCTGTTTACACGGAATTTCTGTTGGGCGAGGGCTGTACAGGCGGTGCCAG 1200
Db 1141 GACCTTACAGCTGTTTACACGGAATTTCTGTTGGGCGAGGGCTGTACAGGCGGTGCCAG 1200
Qy 1201 AGCTGAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTCCGATGGGAGCCT 1260
Db 1201 AGCTGAGCGGGCACCGAGGCCCGGAGACACTATGATGAAGCGTTCCGATGGGAGCCT 1260
Qy 1261 GGGGCTGTTCCTGCAAGTGGCCATCTCCCTGGTCTTCTCTGTGTCATGGAACCGGCTGGT 1320
Db 1261 GGGGCTGTTCCTGCAAGTGGCCATCTCCCTGGTCTTCTCTGTGTCATGGAACCGGCTGGT 1320
Qy 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGCGAGCTTTCCTGTGGCTGC 1380
Db 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGCGAGCTTTCCTGTGGCTGC 1380
Qy 1381 CGGTGCCACATGCTGTGCCACAGTGTGGCGTGTGACAGCTTCAGCGCGCCCTCACCGG 1440
Db 1381 CGGTGCCACATGCTGTGCCACAGTGTGGCGTGTGACAGCTTCAGCGCGCCCTCACCGG 1440
Qy 1441 GTTCACTTCTCAGCCCTCGAGATCTGCCCTTACACACTGGCCTCCCTTACCACCGGGA 1500
Db 1441 GTTCACTTCTCAGCCCTCGAGATCTGCCCTTACACACTGGCCTCCCTTACCACCGGGA 1500
Qy 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGTGACGTGAGGACAG 1560
Db 1501 GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGTGACGTGAGGACAG 1560
Qy 1561 CCTGATGACCAAGCTTCCTGCCAGGCGCTAAGCTGGAGCTCCCTTCCCTTAATGACACAGT 1620
Db 1561 CCTGATGACCAAGCTTCCTGCCAGGCGCTAAGCTGGAGCTCCCTTCCCTTAATGACACAGT 1620
Qy 1621 GGGTCTGGAGCAGTGGCTGCTCCCACTCCACCGCGCTCTGCGGGGCTCTGCTG 1680
Db 1621 GGGTCTGGAGCAGTGGCTGCTCCCACTCCACCGCGCTCTGCGGGGCTCTGCTG 1680
Qy 1681 TGATGCTCCGTAAGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGCGC 1740
Db 1681 TGATGCTCCGTAAGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGCGC 1740
Qy 1741 GGGCATCTGCTGGACCTCGCATCTCGATAGTGCCTTCTGCTGTCCAGGTGGCCCC 1800
Db 1741 GGGCATCTGCTGGACCTCGCATCTCGATAGTGCCTTCTGCTGTCCAGGTGGCCCC 1800
Qy 1801 ATCCCTGTTATGGGCTCCATGTCCAGCTCAGCCAGTCTGTCACTGCTATATGGTGC 1860
Db 1801 ATCCCTGTTATGGGCTCCATGTTCAGCTCAGCCAGTCTGTCACTGCTATATGGTGC 1860
Qy 1861 TGCCGAGGCTGGGTCTGGTGGCCATTTATTTTGCTACAGGTAGTATTTGACAAAG 1920
Db 1861 TGCCGAGGCTGGGTCTGGTGGCCATTTATTTTGCTACAGGTAGTATTTGACAAAG 1920
Qy 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATTTTCTGCTACACAGGTAGTATTTGACAAAG 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAAAATTTTCTGCTACACAGGTAGTATTTGACAAAG 1980
Qy 1981 CACTGGGTCCCAGCTCCCCGCTCTCTGTTAGGCCCATAGGGGCTGCGGCGCCAGT 2040
Db 1981 CACTGGGTCCCAGCTCCCCGCTCTCTGTTAGGCCCATAGGGGCTGCGGCGCCAGT 2040
Qy 2041 TTCTGTTGTCGCAAGTAATGTGGCTCTGTGCTGCCACCTGTGCTGTGAGGTGCGTA 2100
Db 2041 TTCTGTTGTCGCAAGTAATGTGGCTCTGTGCTGCCACCTGTGCTGTGAGGTGCGTA 2100

Qy 2101 GCTGCACAGCTGGGGCTGGGGCTGCCCTCTCTCTCTCTCCCACTCTCTAGGGGTGCGCTG 2160
Db 2101 GCTGCACAGCTGGGGCTGGGGCTGCCCTCTCTCTCTCTCTCCCACTCTCTAGGGGTGCGCTG 2160
Qy 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTCTGGAGCTTATACAGGGAGGCGACAAAGGGCTCC 2220
Db 2161 ACTGGAGGCTTCCAAAGGGGTTTCACTCTGGAGCTTATACAGGGAGGCGACAAAGGGCTCC 2220
Qy 2221 ATGCACATGGAATCGGGGACTCTGACGTGATTTACCCAGGCTCAGGTTAAACAGCTAGC 2280
Db 2221 ATGCACATGGAATCGGGGACTCTGACGTGATTTACCCAGGCTCAGGTTAAACAGCTAGC 2280
Qy 2281 CTCTAGTGTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAATAAATCAGTCACTG 2340
Db 2281 CTCTAGTGTGAGACACACCTAGAGAGGGTTTTTGGGAGCTGAATAAATCAGTCACTG 2340
Qy 2341 GTTTCCCATCTTAAGCCCTTAACTGCGAGCTTGGTTTAAATGATAGCTCTTGGCATGGAG 2400
Db 2341 GTTTCCCATCTTAAGCCCTTAACTGCGAGCTTGGTTTAAATGATAGCTCTTGGCATGGAG 2400
Qy 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Db 2401 TTTCTAGGATGAACACTCTCTCCATGGGATTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy 2461 GTCTGAGGGGCAACACACAAGAACCCAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Db 2461 GTCTGAGGGGCAACACACAAGAACCCAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Qy 2521 GATCCACCCCTCTTAACCTTTATCAGGATGTGGCTGTGGTCTTCTGTGTCATCA 2580
Db 2521 GATCCACCCCTCTTAACCTTTATCAGGATGTGGCTGTGGTCTTCTGTGTCATCA 2580
Qy 2581 CAGAGACACAGGCAATTAATAATTTAACTTATTTTAAACAAGTAGAGGGGAATCCAT 2640
Db 2581 CAGAGACACAGGCAATTAATAATTTAACTTATTTTAAACAAGTAGAGGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGGTGTCTAATAATTTGGGTAGGGGTGGGGATGCCCAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGGTGTCTAATAATTTGGGTAGGGGTGGGGATGCCCAACAATCA 2700
Qy 2701 GGTCCCTGAGATAGCTGTGTCATTTGGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGT 2760
Db 2701 GGTCCCTGAGATAGCTGTGTCATTTGGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTTGAAAATTTTACTCATCCCCAAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTTGAAAATTTTACTCATCCCCAAATGATAAT 2820
Qy 2821 TCCAAATGCTGTTTACCAAGGTTAGGGTGTGTAAGGAAGGTAGAGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTTTACCAAGGTTAGGGTGTGTAAGGAAGGTAGAGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAAAGGCTTCCCTAACCAACCTCTTCTTGGGCCAGGCTGGTTCCTCCCACTTCCA 2940
Db 2881 CTCAAAGGCTTCCCTAACCAACCTCTTCTTGGGCCAGGCTGGTTCCTCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGACCTGCCCAAATTTCCCTACC 3000
Db 2941 CTCCCTCTACTCTCTCTAGGACTGGGCTGATGAAGGACCTGCCCAAATTTCCCTACC 3000
Qy 3001 CCCAACTTCCCTTACCCCCCAACTTTCCCAACAGCTCCCAACCTGTGTTGGAGCTACT 3060
Db 3001 CCCAACTTCCCTTACCCCCCAACTTTCCCAACAGCTCCCAACCTGTGTTGGAGCTACT 3060
Qy 3061 GCAGGACAGAGGACAAAAGTGGGTTTCCCAAGCCTTTGTCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGGACAGAGGACAAAAGTGGGTTTCCCAAGCCTTTGTCATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTGCTTGGGGAATCTCACACAGAAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTTGGGGAATCTCACACAGAAACTCAGGAGCACCCCTGCTGAGCTAAGG 3180

Qy 3181 GAGGCTTATCTCTCAGGGGGGTTTAAAGTGCCGCTTTGCAATAAATGTCGCTTATTTATT 3240
Db 3181 GAGGCTTATCTCTCAGGGGGGTTTAAAGTGCCGCTTTGCAATAAATGTCGCTTATTTATT 3240
Qy 3241 TAGGGGGTGAAATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGGTGACA 3300
Db 3241 TAGGGGGTGAAATTTTATCTGTAAGTGAGCAATCAGAGTATAATGTTTATGGTGACA 3300
Qy 3301 AAATTTAAAGGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AAATTTAAAGGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AA 3410
Db 3361 AA 3410

RESULT 5
US-09-822-827-110
; Sequence 110, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-822-827-110

Query Match 100.0%; Score 3410; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACGAGCTGTCACGCGTGGCTCCGGGTGACAGCGCGCGCTCGGCAGAGTCTGA 60
Db 1 GGGAAACGAGCTGTCACGCGTGGCTCCGGGTGACAGCGCGCGCTCGGCAGAGTCTGA 60
Qy 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCCACAGCAGCAGGTCTTGAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCCACAGCAGCAGGTCTTGAGCATGGCTGAG 120
Qy 121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGCGCCTGGCTGATTCCTAGGCAGTT 180
Db 121 AAGCTGGACCGGCACCAAGGGCTGGCAGAAATGGGCGCCTGGCTGATTCCTAGGCAGTT 180
Qy 181 GGGCGCAGCAAGGAGGAGGCCGACGCTTCTGAGCAGAGCCGAGCAGCAAGCAGTCTG 240
Db 181 GGGCGCAGCAAGGAGGAGGCCGACGCTTCTGAGCAGAGCCGAGCAGCAAGCAGTCTG 240
Qy 241 GAGTGCCTGAACGGCGCCCTGAGCCCTACCGCCTGGCCCACTATGTTCCAGAGGCTGTG 300
Db 241 GAGTGCCTGAACGGCGCCCTGAGCCCTACCGCCTGGCCCACTATGTTCCAGAGGCTGTG 300
Qy 301 GGTGAGCCGCTGTGTGGGCACCGGAAAGCCAGCTCTTGTGGTCAACCTGTAAACCTT 360
Db 301 GGTGAGCCGCTGTGTGGGCACCGGAAAGCCAGCTCTTGTGGTCAACCTGTAAACCTT 360
Qy 361 TGGCTTGGAGGTGTGTTTGGCGCAGGCATCACCTATGTGCCGCTCTGTGCTGGAAGT 420
Db 361 TGGCTTGGAGGTGTGTTTGGCGCAGGCATCACCTATGTGCCGCTCTGTGCTGGAAGT 420
Qy 421 GGGGTAGAGGAGAGTTTCATGACATGTTGCTGGGCATTTGGTTCAGTGTGGGCCTGGT 480
Db 421 GGGGTAGAGGAGAGTTTCATGACATGTTGCTGGGCATTTGGTTCAGTGTGGGCCTGGT 480
Qy 481 CTGTGTCGGCTCTAGGCTCAGCCAGTGACCACTGGGCTGAGCGCTATGSCCGCGCG 540

Db 481 CTGTGTCGGCTCTAGGCTCAGCCAGTGACCACTGGCGTGAGCGCTATGSCCGCGCG 540
Qy 541 GCCCTTCATCTGGGCACTGCTCTGGGCACTCCTGCTGAGCCTCTTCTCATCCCAAGGC 600
Db 541 GCCCTTCATCTGGGCACTGCTCTGGGCACTCCTGCTGAGCCTCTTCTCATCCCAAGGC 600
Qy 601 CGGCTGGCTAGCAGGGCTGCTGTGCCGGATCCAGAGCCCTGGAGTGGACATGCTCAT 660
Db 601 CGGCTGGCTAGCAGGGCTGCTGTGCCGGATCCAGAGCCCTGGAGTGGACATGCTCAT 660
Qy 661 CTTGGGCGTGGGCTGCTGAGACTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGCGCT 720
Db 661 CTTGGGCGTGGGCTGCTGAGACTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGCGCT 720
Qy 721 GCTCTCTGACCTCTTCCGGGACCCGACCACTGTGCCAGGCCCTACTCTGTCTATGCTT 780
Db 721 GCTCTCTGACCTCTTCCGGGACCCGACCACTGTGCCAGGCCCTACTCTGTCTATGCTT 780
Qy 781 CATGATCAGTCTTTGGGGCTGCTGGGCTACCTCTGCTGCCCTGCAATGACCTGGGACAC 840
Db 781 CATGATCAGTCTTTGGGGCTGCTGGGCTACCTCTGCTGCCCTGCAATGACCTGGGACAC 840
Qy 841 TGGCTTGGGCGCCCTACCTGGGCAACCCAGGAGGAGTGCTCTTTGGGCTGCTCACCTCAT 900
Db 841 TGGCTTGGGCGCCCTACCTGGGCAACCCAGGAGGAGTGCTCTTTGGGCTGCTCACCTCAT 900
Qy 901 CTTTCTCAGCTGTAGCAGCCACACTGCTGGTGGCTGAGGAGCAGCGCTGGGCGCCAC 960
Db 901 CTTTCTCAGCTGTAGCAGCCACACTGCTGGTGGCTGAGGAGCAGCGCTGGGCGCCAC 960
Qy 961 CGAGCCAGCAAGAGGGCTGTGCGGCCCTCTCTTGTGCCGCCACTGTGTCCATGCCGCG 1020
Db 961 CGAGCCAGCAAGAGGGCTGTGCGGCCCTCTCTTGTGCCGCCACTGTGTCCATGCCGCG 1020
Qy 1021 CCCTTTGGCTTTCCGAAACCTGGGCGCCCTGCTTCCCGCGGTGACCACTGCTGTGCTG 1080
Db 1021 CCCTTTGGCTTTCCGAAACCTGGGCGCCCTGCTTCCCGCGGTGACCACTGCTGTGCTG 1080
Qy 1081 CATGCCCCGACCTCGCGCGCTCTTGTGGTGGCTGAGCTGTGACAGCTGGATGGACATCAT 1140
Db 1081 CATGCCCCGACCTCGCGCGCTCTTGTGGTGGCTGAGCTGTGACAGCTGGATGGACATCAT 1140
Qy 1141 GACCTTCACGCTGTTTACACGGATTTCTGTTGGGCGAGGGCTGTACCAAGGCGCTGCCAG 1200
Db 1141 GACCTTCACGCTGTTTACACGGATTTCTGTTGGGCGAGGGCTGTACCAAGGCGCTGCCAG 1200
Qy 1201 AGCTGAGCCGGGCAACCGAGCCCGGAGACACTATGATGAAGGGCTTCGGATGGGCGCT 1260
Db 1201 AGCTGAGCCGGGCAACCGAGCCCGGAGACACTATGATGAAGGGCTTCGGATGGGCGCT 1260
Qy 1261 GGGGCTGTTCTGAGTGCGGCATCTCCCTGGTCTTCTCTGCTGATGGACCGGCTGGT 1320
Db 1261 GGGGCTGTTCTGAGTGCGGCATCTCCCTGGTCTTCTCTGCTGATGGACCGGCTGGT 1320
Qy 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGGTGC 1380
Db 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGGTGC 1380
Qy 1381 CGGTGCCACATGCTGTTCACAGTGTGGCGGTGACAGCTTTCAGCGGCGCTTCACCGG 1440
Db 1381 CGGTGCCACATGCTGTTCACAGTGTGGCGGTGACAGCTTTCAGCGGCGCTTCACCGG 1440
Qy 1441 GTTACCTTCTCAGCCCTGAGATCTCGCCCTACACACTGGCCTCCCTCTACCAACCGGGA 1500
Db 1441 GTTACCTTCTCAGCCCTGAGATCTCGCCCTACACACTGGCCTCCCTCTACCAACCGGGA 1500
Qy 1501 GAAGCAGGTGCTCTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
Db 1501 GAAGCAGGTGCTCTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
Qy 1561 CCTGATCAGCAGCTTCTGCGCAGGCCCTTAAGCCTTGGAGCTTCCCTTCCCTTAATGACACGT 1620
Db 1561 CCTGATCAGCAGCTTCTGCGCAGGCCCTTAAGCCTTGGAGCTTCCCTTCCCTTAATGACACGT 1620

Db 1561 CCTGATGACCAAGCTTCCTGCGCAGGCCCTAAGCTGGAGCTCCCTTCCCTAATGACACGT 1620
Qy 1621 GGGTCTGGAGGCAAGTGGCTGCTCCCACTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db 1621 GGGTCTGGAGGCAAGTGGCTGCTCCCACTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Qy 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGGCCACCGAGGCCAGGGTGGTTCGGGGCG 1740
Db 1681 TGATGTCTCCGTACGTGTGGTGGGTGAGGCCACCGAGGCCAGGGTGGTTCGGGGCG 1740
Qy 1741 GGGCATCTGCTGGACCTCGGCATCTCGATAGTGCCTTCTGCTGCCAGGTGGCCCC 1800
Db 1741 GGGCATCTGCTGGACCTCGGCATCTCGATAGTGCCTTCTGCTGCCAGGTGGCCCC 1800
Qy 1801 ATCCCTGTTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCTCATCTGCTATATGGTGT 1860
Db 1801 ATCCCTGTTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGTCTCATCTGCTATATGGTGT 1860
Qy 1861 TGCCGAGCCCTGGGTCTGTGCGCCATTTACTTTGCTACACAGGTAGTATTTGACAAG 1920
Db 1861 TGCCGAGCCCTGGGTCTGTGCGCCATTTACTTTGCTACACAGGTAGTATTTGACAAG 1920
Qy 1921 CGACTTGGCCAAATACTCAGCGTAGAATACTTCCAGACATTTGGGGTGGAGGGCTGCCT 1980
Db 1921 CGACTTGGCCAAATACTCAGCGTAGAATACTTCCAGACATTTGGGGTGGAGGGCTGCCT 1980
Qy 1981 CACTGGGTCCAGCTCCCGCTCTCTGTAGGCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Db 1981 CACTGGGTCCAGCTCCCGCTCTCTGTAGGCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Qy 2041 TTCTGTTGCTGCAAAAGTAATGTGCTCTGTGCTGCCACCTGTGCTGAGTGGGTA 2100
Db 2041 TTCTGTTGCTGCAAAAGTAATGTGCTCTGTGCTGCCACCTGTGCTGAGTGGGTA 2100
Qy 2101 GCTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db 2101 GCTGCACAGCTGGGGCTGGGGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy 2161 ACTGGAGCCCTTCAAGGGGTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGTCTC 2220
Db 2161 ACTGGAGCCCTTCAAGGGGTTTCAGTCTGGACTTATACAGGAGGCCAGAGGGTCTC 2220
Qy 2221 ATGCACTGGATCGGGGACTCTGAGTGGATTAACAGGCTCAGGGTTAACAGCTAGC 2280
Db 2221 ATGCACTGGATCGGGGACTCTGAGTGGATTAACAGGCTCAGGGTTAACAGCTAGC 2280
Qy 2281 CTCTAGTTGAGACACACTAGAGAGGGTTTTGGGAGCTGAATAACTCAGTCACTCTG 2340
Db 2281 CTCTAGTTGAGACACACTAGAGAGGGTTTTGGGAGCTGAATAACTCAGTCACTCTG 2340
Qy 2341 GTTTCCTCATCTAAGCCCTTAACCTGCAGCTTCGTTTAATGTAGCTCTTTCATGGGAG 2400
Db 2341 GTTTCCTCATCTAAGCCCTTAACCTGCAGCTTCGTTTAATGTAGCTCTTTCATGGGAG 2400
Qy 2401 TTTCTAGGATGAACACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGAGA 2460
Db 2401 TTTCTAGGATGAACACACTCTCCATGGGATTTGAACATATGACTTATTTGAGGGAGA 2460
Qy 2461 GTCTGAGGGCAACACAGAACCCAGTCCCTCAGCCACAGCACTGCTTTTGGCT 2520
Db 2461 GTCTGAGGGCAACACAGAACCCAGTCCCTCAGCCACAGCACTGCTTTTGGCT 2520
Qy 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGCTCTCTCTCTCTCTCTCTCT 2580
Db 2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGCTCTCTCTCTCTCTCTCTCT 2580
Qy 2581 CAGAGACACAGGCAATTTAAATTTTAACTTATTTTAAACAAAGTAGAGGGAATCCAT 2640
Db 2581 CAGAGACACAGGCAATTTAAATTTTAACTTATTTTAAACAAAGTAGAGGGAATCCAT 2640
Qy 2641 TGCTAGCTTTTCTGTTGGTGTCTTAATTTTGGGTAGGGTGGGGATCCCCCAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTTGGTGTCTTAATTTTGGGTAGGGTGGGGATCCCCCAACAATCA 2700

Qy 2701 GGTCCCTGAGATAGCTGGTCAATTTGGGCTGATCATTTGCCAGAACTTTCTTCTCTGGGT 2760
Db 2701 GGTCCCTGAGATAGCTGGTCAATTTGGGCTGATCATTTGCCAGAACTTTCTTCTCTGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTTGGAATTTCTACTCATCCCCAAATGATAAT 2820
Db 2761 CTGGCCCCCAAAATGCTTAACCCAGGACCTTTGGAATTTCTACTCATCCCCAAATGATAAT 2820
Qy 2821 TCCAAATGCTGTTTACCAGGTTAGGTTGTTGAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTTTACCAGGTTAGGTTGTTGAAGGAGGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTCAAGGGCTTCCCTAAACCCCTCTTCTCTTGGGCCAGCTGGTTCCGCCCTTCCA 2940
Db 2881 CTCAAGGGCTTCCCTAAACCCCTCTTCTCTTGGGCCAGCTGGTTCCGCCCTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGACTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGACTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCTTCCCACTTTCCCAAGCTCCCAACCCCTGTTTGGAGCTACT 3060
Db 3001 CCCAACTTTCCCTTACCCTTCCCACTTTCCCAAGCTCCCAACCCCTGTTTGGAGCTACT 3060
Qy 3061 GCAGGACGAGAACCAAGTGGGTTTCCCAAGCTTTTCCATCTCAGCCCCCAGAGT 3120
Db 3061 GCAGGACGAGAACCAAGTGGGTTTCCCAAGCTTTTCCATCTCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGCTTGGGGAATCTCACAGAACTCAGAGACACCCCTGCTGAGCTAAGG 3180
Db 3121 ATATCTGCTTGGGGAATCTCACAGAACTCAGAGACACCCCTGCTGAGCTAAGG 3180
Qy 3181 GAGTCTTATCTCTCAGGGGGTTTAAAGTGGCGTTTGAATAATGCTCTTATTTATT 3240
Db 3181 GAGTCTTATCTCTCAGGGGGTTTAAAGTGGCGTTTGAATAATGCTCTTATTTATT 3240
Qy 3241 TAGCGGGTGAATAATTTTATATCTGTAAGTGAAGCAATCAGAGTATAATTTATGTTGACA 3300
Db 3241 TAGCGGGTGAATAATTTTATATCTGTAAGTGAAGCAATCAGAGTATAATTTATGTTGACA 3300
Qy 3301 AATTTAAGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Db 3301 AATTTAAGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AAA 3410
Db 3361 AAA 3410

RESULT 6

US-09-115-453-110
; Sequence 110, Application US/09115453B
; Patent No. US20020090372A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-115-453-110

Query Match 100.0%; Score 3410; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACAGCCTGACAGCGCTGGTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
Db |||||
Qy 1 GGGAAACAGCCTGACAGCGCTGGTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
Db |||||
Qy 61 GTGATGAGACGTGTCCCCACTGAGGTGCCCCACAGCAGCAGGTGTGAGCATGGGCTGAG 120
Db |||||
Qy 61 GTGATGAGACGTGTCCCCACTGAGGTGCCCCACAGCAGCAGGTGTGAGCATGGGCTGAG 120
Db |||||
Qy 121 AAGCTGGACCGGACCAAGGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGCCAGTT 180
Db |||||
Qy 121 AAGCTGGACCGGACCAAGGGCTGGCAGAAATGGCGCCTGGCTGATTCCTAGCCAGTT 180
Db |||||
Qy 181 GGGCGCAGCAGGAGGAGGCGCGCAGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG 240
Db |||||
Qy 181 GGGCGCAGCAGGAGGAGGCGCGCAGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG 240
Db |||||
Qy 241 GAGTGCCTGAACGGGCCCCCTGAGCCCTACCGCCTGGCCCACTATGTFCCAGAGGCTGTG 300
Db |||||
Qy 241 GAGTGCCTGAACGGGCCCCCTGAGCCCTACCGCCTGGCCCACTATGTFCCAGAGGCTGTG 300
Db |||||
Qy 301 GGTGAGCCGCTGTCGGGCACCGGAAGCCAGCTCTTGTGTGCTCAACCTGCTAACTTT 360
Db |||||
Qy 301 GGTGAGCCGCTGTCGGGCACCGGAAGCCAGCTCTTGTGTGCTCAACCTGCTAACTTT 360
Db |||||
Qy 361 TGGCTTGAGGTGTGTTTGGCGCAGGACATCACTATGTGCGCTCTGTGCTGGAAGT 420
Db |||||
Qy 361 TGGCTTGAGGTGTGTTTGGCGCAGGACATCACTATGTGCGCTCTGTGCTGGAAGT 420
Db |||||
Qy 421 GGGGTTAGAGGAGGATTCATGACCATGTGCTGGCAATGGTCCAGTGTGGCCCTGGT 480
Db |||||
Qy 481 CTGTGTCGCGCTCCTAGGCTCAGCAGTGAACCTATGGGTGGAGCTATGSCCGCGCGG 540
Db |||||
Qy 481 CTGTGTCGCGCTCCTAGGCTCAGCAGTGAACCTATGGGTGGAGCTATGSCCGCGCGG 540
Db |||||
Qy 541 GCCCTTCATCTGGGCACCTGCTTGGGCATCCTGCTGAGCCCTTTCTCATCCCAAGGC 600
Db |||||
Qy 541 GCCCTTCATCTGGGCACCTGCTTGGGCATCCTGCTGAGCCCTTTCTCATCCCAAGGC 600
Db |||||
Qy 601 CGGCTGGCTAGCAGGGCTGTGTGTCGGGATCCAGGCCCTCGAGCTGGCAGCTGCTCAT 660
Db |||||
Qy 601 CGGCTGGCTAGCAGGGCTGTGTGTCGGGATCCAGGCCCTCGAGCTGGCAGCTGCTCAT 660
Db |||||
Qy 661 CTTGGGCGTGGGCTGTGTGACTTCTGTGGCAGAGTGTGTCTCACTGAGAGGCCCT 720
Db |||||
Qy 661 CTTGGGCGTGGGCTGTGTGACTTCTGTGGCAGAGTGTGTCTCACTGAGAGGCCCT 720
Db |||||
Qy 721 GCTCTGACCTTTCGGGACCGGACCACTGTGCGGAGGCTACTGTGCTATGCTTT 780
Db |||||
Qy 721 GCTCTGACCTTTCGGGACCGGACCACTGTGCGGAGGCTACTGTGCTATGCTTT 780
Db |||||
Qy 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTTGACTGGGACACAG 840
Db |||||
Qy 781 CATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTTGACTGGGACACAG 840
Db |||||
Qy 841 TGCCCTGGCCCCCTACTGTGGGACCCAGAGGAGTGTCTTTGGCCTGTCTCACTCAT 900
Db |||||
Qy 841 TGCCCTGGCCCCCTACTGTGGGACCCAGAGGAGTGTCTTTGGCCTGTCTCACTCAT 900
Db |||||
Qy 901 CTTCTCAGCTGTGAGCAGCACTGTGCTGGCTGAGGAGCAGGCTGGGCGCCAC 960
Db |||||
Qy 901 CTTCTCAGCTGTGAGCAGCACTGTGCTGGCTGAGGAGCAGGCTGGGCGCCAC 960
Db |||||
Qy 961 CGAGCCAGCAGAGGGCTGTGCGGCCCTCTGTGCGCCCACTGTGCTCATGCCGGC 1020
Db |||||
Qy 961 CGAGCCAGCAGAGGGCTGTGCGGCCCTCTGTGCGCCCACTGTGCTCATGCCGGC 1020
Db |||||
Qy 1021 CCGCTTGGCTTTCGGAACTGGGCGCCCTGCTTTCCCGGCTGACCAAGCTGTGCTGCG 1080
Db |||||
Qy 1021 CCGCTTGGCTTTCGGAACTGGGCGCCCTGCTTTCCCGGCTGACCAAGCTGTGCTGCG 1080
Db |||||

Qy 1081 CATGCCCGCACCCCTGCGCCGGCTCTTCGTGGCTGAGCTGTGCACTGGATGGCACTCAT 1140
Db |||||
Qy 1081 CATGCCCGCACCCCTGCGCCGGCTCTTCGTGGCTGAGCTGTGCACTGGATGGCACTCAT 1140
Db |||||
Qy 1141 GACCTTCACGCTGTTTACACGGATTTCTGTGGGAGGAGGCTGTACAGGGGCTGCCAG 1200
Db |||||
Qy 1141 GACCTTCACGCTGTTTACACGGATTTCTGTGGGAGGAGGCTGTACAGGGGCTGCCAG 1200
Db |||||
Qy 1201 AGCTGAGCCGGCACCCGAGGCCCGGAGACACTATGATGAGGGCTTCCGATGGGAGGCT 1260
Db |||||
Qy 1201 AGCTGAGCCGGCACCCGAGGCCCGGAGACACTATGATGAGGGCTTCCGATGGGAGGCT 1260
Db |||||
Qy 1261 GGGGCTGTTCTGTCAGTGTGCGCATCTCCCTGGCTTCTCTCTGTGTCATGACCGGCTGGT 1320
Db |||||
Qy 1261 GGGGCTGTTCTGTCAGTGTGCGCATCTCCCTGGCTTCTCTCTGTGTCATGACCGGCTGGT 1320
Db |||||
Qy 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
Db |||||
Qy 1321 GCAGCGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
Db |||||
Qy 1381 CGGTGCCACATGCTGCTCCACAGTGTGGCCGTGGTACAGCTTCAGCGGCCCTCACCGG 1440
Db |||||
Qy 1381 CGGTGCCACATGCTGCTCCACAGTGTGGCCGTGGTACAGCTTCAGCGGCCCTCACCGG 1440
Db |||||
Qy 1441 GTTCACCTTCTCAGCCCTGCGAGATCTCCCTACACACTGGCCCTCCCTCTACCAACCGGGA 1500
Db |||||
Qy 1441 GTTCACCTTCTCAGCCCTGCGAGATCTCCCTACACACTGGCCCTCCCTCTACCAACCGGGA 1500
Db |||||
Qy 1501 GAAGCAGGTGTTCTGCCCCAAATAACGAGGGGACACTGAGAGGTGCTAGCAGTAGGACAG 1560
Db |||||
Qy 1501 GAAGCAGGTGTTCTGCCCCAAATAACGAGGGGACACTGAGAGGTGCTAGCAGTAGGACAG 1560
Db |||||
Qy 1561 CTTGATGACAGCTTCTGTCAGGCTTAAGCCTGAGCTCCCTTCCCTTAATGACACAGT 1620
Db |||||
Qy 1561 CTTGATGACAGCTTCTGTCAGGCTTAAGCCTGAGCTCCCTTCCCTTAATGACACAGT 1620
Db |||||
Qy 1621 GGGTCTGAGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db |||||
Qy 1621 GGGTCTGAGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCGCTG 1680
Db |||||
Qy 1681 TGATGTCCTGCTAGTGTGTGGTGTAGCCCAACCGAGGCCAGGCTGTTCGGGCGG 1740
Db |||||
Qy 1681 TGATGTCCTGCTAGTGTGTGGTGTAGCCCAACCGAGGCCAGGCTGTTCGGGCGG 1740
Db |||||
Qy 1741 GGGCATCTGCTGGAACCTGCGCATCTGAGTAGTCCCTTCTGCTGTCGCCAGTGGCCCC 1800
Db |||||
Qy 1741 GGGCATCTGCTGGAACCTGCGCATCTGAGTAGTCCCTTCTGCTGTCGCCAGTGGCCCC 1800
Db |||||
Qy 1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCAGTCTGTCTACTGCTATATGGTGTG 1860
Db |||||
Qy 1801 ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCAGTCTGTCTACTGCTATATGGTGTG 1860
Db |||||
Qy 1861 TGCCGAGGCTGGTGTGCTGCCAATTTATTTGTGTACACAGGTAGTATTTGACAAGAG 1920
Db |||||
Qy 1861 TGCCGAGGCTGGTGTGCTGCCAATTTATTTGTGTACACAGGTAGTATTTGACAAGAG 1920
Db |||||
Qy 1921 CGACTTGGCCAAATACCTCAGCTAGAAAATCTCCAGACACTTGGGGTGGAGGGCTGCT 1980
Db |||||
Qy 1921 CGACTTGGCCAAATACCTCAGCTAGAAAATCTCCAGACACTTGGGGTGGAGGGCTGCT 1980
Db |||||
Qy 1981 CACTGGGTCCAGCTCCCGCTCTGTTAGCCCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Db |||||
Qy 1981 CACTGGGTCCAGCTCCCGCTCTGTTAGCCCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Db |||||
Qy 2041 TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCACCCCTGTGCTGCTAGGTGCGTA 2100
Db |||||
Qy 2041 TTCTGTTGCTGCCAAAGTAAATGTGGCTCTCTGCTGCCACCCCTGTGCTGCTAGGTGCGTA 2100
Db |||||
Qy 2101 GCTGCAAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCTCCAGCTCTCTAGGGGTGCTG 2160
Db |||||
Qy 2101 GCTGCAAGCTGGGGGCTGGGGGCTGCTCTCTCTCTCTCCAGCTCTCTAGGGGTGCTG 2160
Db |||||
Qy 2161 ACTGGAGCCCTTCCAGGGGGTTTCTAGTCTGGACTTATACAGGGAGGCCAGAGGGCTCC 2220
Db |||||

Db 2161 ACTGAGGCTTCCAAAGGGGTTTCAGTCTGGACTATACAGGGAGGCCAAGAGGCTCC 2220
Qy 2221 ATGCACCTGGAATGCGGGGACTCTGAGGTGAGTATACCCAGGCTCAGGCTTAACAGCTAGC 2280
Db 2221 ATGCACCTGGAATGCGGGGACTCTGAGGTGAGTATACCCAGGCTCAGGCTTAACAGCTAGC 2280
Qy 2281 CTCTAGTTGAGACACACTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Db 2281 CTCTAGTTGAGACACACTAGAGAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
Qy 2341 GTTTCCTCATCTTAAGCCCTTAACCTGCAGCTTCGTTTAATGATAGCTCTTGCATGGAG 2400
Db 2341 GTTTCCTCATCTTAAGCCCTTAACCTGCAGCTTCGTTTAATGATAGCTCTTGCATGGAG 2400
Qy 2401 TTTCTAGATGAACACACTCTCCATCGGATTTGAACATATGACTATTATTGAGGGGAAGA 2460
Db 2401 TTTCTAGATGAACACACTCTCCATCGGATTTGAACATATGACTATTATTGAGGGGAAGA 2460
Qy 2461 GTCTTGAGGGGCAACACAAAGAACAGGTCCCTCAGCCACACAGCACTGCTTTTGTCT 2520
Db 2461 GTCTTGAGGGGCAACACAAAGAACAGGTCCCTCAGCCACACAGCACTGCTTTTGTCT 2520
Qy 2521 GATCACCCCTCTTACCTTTATCAGATGTGGCTGTGGTCTTCTGTTGCCATCA 2580
Db 2521 GATCACCCCTCTTACCTTTATCAGATGTGGCTGTGGTCTTCTGTTGCCATCA 2580
Qy 2581 CAGACACAGGCATTTAAATATTTAACTTATTTTAACTTATTTAACTTATTTAACTTATTT 2640
Db 2581 CAGACACAGGCATTTAAATATTTAACTTATTTTAACTTATTTTAACTTATTTTAACTTATTT 2640
Qy 2641 TGCTAGCTTTTCTGTGTGTCTTAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Db 2641 TGCTAGCTTTTCTGTGTGTCTTAATATTTGGGTAGGGTGGGGATCCCAACAATCA 2700
Qy 2701 GGTCCCTTGAGATAGCTGGTCAATGGGCTGATCATGTCAGAACTTCTTCTCTGGGGT 2760
Db 2701 GGTCCCTTGAGATAGCTGGTCAATGGGCTGATCATGTCAGAACTTCTTCTCTGGGGT 2760
Qy 2761 CTGGCCCCCAAAATGCCTTAACCCAGGACCTTGGAAATTTCTACTATCCCAAAATGATAT 2820
Db 2761 CTGGCCCCCAAAATGCCTTAACCCAGGACCTTGGAAATTTCTACTATCCCAAAATGATAT 2820
Qy 2821 TCCAAATGCTGTATCCCAAGGTAGGGTGTGAAGGAAGTAGAGGGTGGGGCTTCAGGT 2880
Db 2821 TCCAAATGCTGTATCCCAAGGTAGGGTGTGAAGGAAGTAGAGGGTGGGGCTTCAGGT 2880
Qy 2881 CTAAACGGGTTCCCTTAAACACCCCTCTTCTTGGCCAGGCTGTGTTCCCCCACTTCCA 2940
Db 2881 CTAAACGGGTTCCCTTAAACACCCCTCTTCTTGGCCAGGCTGTGTTCCCCCACTTCCA 2940
Qy 2941 CTCCCTCTACTCTCTAGAGCTGGGCTGATGAGGCACCTGCCCAAAATTTCCCTTACC 3000
Db 2941 CTCCCTCTACTCTCTAGAGCTGGGCTGATGAGGCACCTGCCCAAAATTTCCCTTACC 3000
Qy 3001 CCCAACTTTCCCTTACCCTTACCCTTACCCTTACCCTTACCCTTACCCTTACCCTTACC 3060
Db 3001 CCCAACTTTCCCTTACCCTTACCCTTACCCTTACCCTTACCCTTACCCTTACCCTTACC 3060
Qy 3061 GCAGGACAGAGCAAAAGTGGGTTTTCCCAAGCTTTTCCCAAGCTTTTCCAGCCCCCAGAGT 3120
Db 3061 GCAGGACAGAGCAAAAGTGGGTTTTCCCAAGCTTTTCCCAAGCTTTTCCAGCCCCCAGAGT 3120
Qy 3121 ATATCTGTGCTGGGGAATCTCACACAGAACTCAGGAGCACCCCTGCCTGAGCTAAGG 3180
Db 3121 ATATCTGTGCTGGGGAATCTCACACAGAACTCAGGAGCACCCCTGCCTGAGCTAAGG 3180
Qy 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGCCTTTTGCATATATGCTCTTATTTATT 3240
Db 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGCCTTTTGCATATATGCTCTTATTTATT 3240
Qy 3241 TAGCGGGGTGAATATTTTATAGTAAAGTGAAGCAATCAGATATTAATGTTTATGATGACA 3300

Db 3341 TAGCGGGTGAATATTTTATATCTTAAGTGAGCAATCAGAGTATAATGTTTATGATGACA 3300
Qy 3301 AAATTTAAAGGCTTTCTTTATATGTTTAAAAAAGGCTTTTAAAAAAGGCTTTTAAAAA 3360
Db 3301 AAATTTAAAGGCTTTCTTTATATGTTTAAAAAAGGCTTTTAAAAAAGGCTTTTAAAAA 3360
Qy 3361 AAAAAAARAAAAAAGGCTTTTAAAAAAGGCTTTTAAAAAAGGCTTTTAAAAAAGGCTTTT 3410
Db 3361 AAAAAAARAAAAAAGGCTTTTAAAAAAGGCTTTTAAAAAAGGCTTTTAAAAAAGGCTTTT 3410
RESULT 7
US-09-232-880-110
; Sequence 110, Application US/09232880
; Publication No. US20020182596A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C6
; CURRENT APPLICATION NUMBER: US/09/232,880
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-880-110

Query Match 100.0%; Score 3410; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGAAACAGGCTGCACCGCTGGCTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
Db 1 GGGAAACAGGCTGCACCGCTGGCTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA 60
Qy 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCCACACAGCAGCAGGTGTTGAGCATGGCTGAG 120
Db 61 GTGATGAGAGCTGTCCCACTGAGGTGCCCCACACAGCAGCAGGTGTTGAGCATGGCTGAG 120
Qy 121 AAGCTGACCGGACCAAGGGCTGGCAGAAATGGCGCCCTGGCTGATTCTTAGGCAGTT 180
Db 121 AAGCTGACCGGACCAAGGGCTGGCAGAAATGGCGCCCTGGCTGATTCTTAGGCAGTT 180
Qy 181 GGCGGACAGCAAGGAGGAGCGCGCTTCTTGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db 181 GGCGGACAGCAAGGAGGAGCGCGCTTCTTGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Qy 241 GAGTGTCTGAACGGCCCTTACCGCTTACCGCTTACCGCTTACCGCTTACCGCTTAC 300
Db 241 GAGTGTCTGAACGGCCCTTACCGCTTACCGCTTACCGCTTACCGCTTACCGCTTAC 300
Qy 301 GGTGAGCGCTGTGTGGGCAACCGGAAAGCCAGCTTCTGTGCTCAACCTGCTAACTT 360
Db 301 GGTGAGCGCTGTGTGGGCAACCGGAAAGCCAGCTTCTGTGCTCAACCTGCTAACTT 360
Qy 361 TGGCTTGAAGGTGTTTGGCCGAGCAGCATCACTATGTGCGGCTCTGTGCTGGAAGT 420
Db 361 TGGCTTGAAGGTGTTTGGCCGAGCAGCATCACTATGTGCGGCTCTGTGCTGGAAGT 420
Qy 421 GGGGTGAGGAGAGTTTATGACCATGTGCTGGGCATTTGGTCCAGTCTGGGCTCGT 480
Db 421 GGGGTGAGGAGAGTTTATGACCATGTGCTGGGCATTTGGTCCAGTCTGGGCTCGT 480
Qy 481 CTGTGCTCCGCTCTCTAGGCTCAGCAGTGACCACTGGCGTGGAGGCTATGCGCCGCG 540
Db 481 CTGTGCTCCGCTCTCTAGGCTCAGCAGTGACCACTGGCGTGGAGGCTATGCGCCGCG 540
Qy 541 GCCCTTCATCTGGGCACTGTCTTTGGGCACTCTGCTGAGCCTCTTTCTCTATCCCAAGGC 600

|||||
Db 541 GCCCTTCACTGGGCACTGTCTTGGGCATCTGTGAGCCCTCTTTCTCATCCCAAGGGC 600
Qy
601 CGGCTGGCTAGCAGGCTGTGTGCCGATGCCAGGCCCCGAGCTGGACACTGCTCAT 660
Db
601 CGGCTGGCTAGCAGGCTGTGTGTGCCGATGCCAGGCCCCGAGCTGGACACTGCTCAT 660
Qy
661 CCTGGGCGTGGGCTGTGTGACTTTCTGTGGCAGGTGTGTCTCATCTCCACCTGGAGGCCCT 720
Db
661 CCTGGGCGTGGGCTGTGTGACTTTCTGTGGCAGGTGTGTCTCATCTCCACCTGGAGGCCCT 720
Qy
721 GCTCTGACCTCTTCCGGGACCCGGACCACTGTGCCAGGCGCTACTCTGTCTATGCTTT 780
Db
721 GCTCTGACCTCTTCCGGGACCCGGACCACTGTGCCAGGCGCTACTCTGTCTATGCTTT 780
Qy
781 CATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCCATTGACTGGGACACCAG 840
Db
781 CATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCCATTGACTGGGACACCAG 840
Qy
841 TGCCCTGGCCCCCTACCTGGGCACCCAGGAGGAGTGCCCTCTTTGGCCCTGTCTCACCCCTCAT 900
Db
841 TGCCCTGGCCCCCTACCTGGGCACCCAGGAGGAGTGCCCTCTTTGGCCCTGTCTCACCCCTCAT 900
Qy
901 CTTCCTCACTGTGTAGCAGCACTGTGTGGCTGTGAGAGGAGCGCTGGGCCCCAC 960
Db
901 CTTCCTCACTGTGTAGCAGCACTGTGTGGCTGTGAGAGGAGCGCTGGGCCCCAC 960
Qy
961 CGAGCCAGCAAGGGCTGTGGGCCCCCTCTGTGTGCCCCACTGTCTGCATGCCGGGC 1020
Db
961 CGAGCCAGCAAGGGCTGTGGGCCCCCTCTGTGTGCCCCACTGTCTGCATGCCGGGC 1020
Qy
1021 CCGCTTGGCTTTCGGAACTTGGGCGCCCTGCTTCCCGGCTGCACACAGCTGTGTGCCG 1080
Db
1021 CCGCTTGGCTTTCGGAACTTGGGCGCCCTGCTTCCCGGCTGCACACAGCTGTGTGCCG 1080
Qy
1081 CATGCCCGCACCTGTGCCGCTCTTCTGTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Db
1081 CATGCCCGCACCTGTGCCGCTCTTCTGTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Qy
1141 GACCTTACGCTGTTTACACGGATTTGTGGGCGAGGGCTGTACAGGGCGCTGCCAG 1200
Db
1141 GACCTTACGCTGTTTACACGGATTTGTGGGCGAGGGCTGTACAGGGCGCTGCCAG 1200
Qy
1201 AGCTGAGCCGGCACCGAGGCCGAGACACTATGATGAAGCGTTCCGATGGGCGAGCCT 1260
Db
1201 AGCTGAGCCGGCACCGAGGCCGAGACACTATGATGAAGCGTTCCGATGGGCGAGCCT 1260
Qy
1261 GGGGCTGTCTCGAGTGCGCCATCTCCCTGGTCTTCTCTGTGTGATGGACCGGCTGGT 1320
Db
1261 GGGGCTGTCTCGAGTGCGCCATCTCCCTGGTCTTCTCTGTGTGATGGACCGGCTGGT 1320
Qy
1321 GCAGGGATTCGGCACTCGAGCAGTCTATTGGCCAGTGTGCGAGCTTTCCTGTGGCTGC 1380
Db
1321 GCAGGGATTCGGCACTCGAGCAGTCTATTGGCCAGTGTGCGAGCTTTCCTGTGGCTGC 1380
Qy
1381 CGGTGCCACATGCTCTGCCACAGTGTGGCCGCTGGTGACACTTCAGCCGCCCTCACCGG 1440
Db
1381 CGGTGCCACATGCTCTGCCACAGTGTGGCCGCTGGTGACACTTCAGCCGCCCTCACCGG 1440
Qy
1441 GTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCTACCAACCGGGA 1500
Db
1441 GTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCTACCAACCGGGA 1500
Qy
1501 GAAGCAGTGTCTTCCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Db
1501 GAAGCAGTGTCTTCCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG 1560
Qy
1561 CCTGATGACAGCTTCTGCCAGGCCCCCTAAGCTGGAGCTCCCTTCCCTAATGACACGT 1620
Db
1561 CCTGATGACAGCTTCTGCCAGGCCCCCTAAGCTGGAGCTCCCTTCCCTAATGACACGT 1620
Qy
1621 GGGTGTGGAGGCACTGGCCCTGCTCCCACTCCACCGCGCTCTCGGGGGCTCTGCTG 1680
|||||

Db 1621 GGGTGTGGAGGCACTGGCCCTGCTCCCACTCCACCGCGCTCTGCGGGGCTCTGCTG 1680
Qy
1681 TGATGTCTCCGTACGTGTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCCGGGCGG 1740
Db
1681 TGATGTCTCCGTACGTGTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCCGGGCGG 1740
Qy
1741 GGGCATCTGCTGTGACCTCGCCATCTCGATAGTGTGCTTCTGTGTGCCAGGTGGCCCC 1800
Db
1741 GGGCATCTGCTGTGACCTCGCCATCTCGATAGTGTGCTTCTGTGTGCCAGGTGGCCCC 1800
Qy
1801 ATCCCTGTTTATGGGCTCAATGTGCCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Db
1801 ATCCCTGTTTATGGGCTCAATGTGCCAGCTCAGCCAGTCTGTCTACTGCTATATGGTGTG 1860
Qy
1861 TGCCGAGGCGCTGGTCTGGTCTGCCATTTACTTTGTGTACACAGGTAGTATTTGACAAGAG 1920
Db
1861 TGCCGAGGCGCTGGTCTGGTCTGGCATTACTTTGTGTACACAGGTAGTATTTGACAAGAG 1920
Qy
1921 CGACTTGGCCAAATATCTCAGCGTAGAAAACTTCACAGCACTTTGGGGTGGAGGCGCTGCT 1980
Db
1921 CGACTTGGCCAAATATCTCAGCGTAGAAAACTTCACAGCACTTTGGGGTGGAGGCGCTGCT 1980
Qy
1981 CACTGGGTCCAGCTCCCGCTCCTGTAGCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Db
1981 CACTGGGTCCAGCTCCCGCTCCTGTAGCCCATGGGGCTGCGGGCTGGCGCCAGT 2040
Qy
2041 TTCTGTTGTCTGCCAAAGTAAATGTGGCTCTCTGTGTGCCACCCCTGTGTGCTGAGGTGCGTA 2100
Db
2041 TTCTGTTGTCTGCCAAAGTAAATGTGGCTCTCTGTGTGCCACCCCTGTGTGCTGAGGTGCGTA 2100
Qy
2101 GCTGCACAGCTGGGGGCTGGGGGCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Db
2101 GCTGCACAGCTGGGGGCTGGGGGCTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 2160
Qy
2161 ACTGGAGGCTTCCAGGGGCTTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Db
2161 ACTGGAGGCTTCCAGGGGCTTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
Qy
2221 ATGCACCTGGAATCGGGGACTCTGTCAGGTGATTTACCCAGGCTCAGGGTTAAACAGCTAGC 2280
Db
2221 ATGCACCTGGAATCGGGGACTCTGTCAGGTGATTTACCCAGGCTCAGGGTTAAACAGCTAGC 2280
Qy
2281 CTCTAGTTGAGACACACCTAGAGAGGGTTTTTGGAGCTGAAATAAATCAGTCACTG 2340
Db
2281 CTCTAGTTGAGACACACCTAGAGAGGGTTTTTGGAGCTGAAATAAATCAGTCACTG 2340
Qy
2341 GTTTCCCATCTTAAGCCCCCTTAACTGAGCTTTCGTTTAAATGTAGCTCTTGCATGGGAG 2400
Db
2341 GTTTCCCATCTTAAGCCCCCTTAACTGAGCTTTCGTTTAAATGTAGCTCTTGCATGGGAG 2400
Qy
2401 TTTCTAGGATGAACACTCTCCATGGGATTTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Db
2401 TTTCTAGGATGAACACTCTCCATGGGATTTTGAACATATGACTTATTTGTAGGGGAAGA 2460
Qy
2461 GTCTGAGGGGCAACACCAAGAACCAAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Db
2461 GTCTGAGGGGCAACACCAAGAACCAAGTCCCCCTCAGCCCCACAGCACTGTCTTTTGTCT 2520
Qy
2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCCTGTGTGCTTCTGTGTGCCATCA 2580
Db
2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCCTGTGTGCTTCTGTGTGCCATCA 2580
Qy
2581 CAGAGACACAGGCAATTAATAATTTAACTTATTTTAAATAAGTAGAGGGAATCCAT 2640
Db
2581 CAGAGACACAGGCAATTAATAATTTAACTTATTTTAAATAAGTAGAGGGAATCCAT 2640
Qy
2641 TGCTAGCTTTTCTGTGTGTGTCTAATAATTTGGGTAGGGTGGGGGATCCCCAAACAATCA 2700
Db
2641 TGCTAGCTTTTCTGTGTGTGTGTCTAATAATTTGGGTAGGGTGGGGGATCCCCAAACAATCA 2700
Qy
2701 GGTCCCTGAGATAGCTGTGCTAATTTGGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGT 2760
Db
2701 GGTCCCTGAGATAGCTGTGCTAATTTGGGCTGATCATTTGCCAGAAATCTTCTCTCTGGGT 2760
|||||

```
QY 2761 CTGGCCCCCAAAATGCGTAAACCCAGGACCTTGAAATTTACTCATCCCAATGATAAT 2820
Db |||||||
QY 2761 CTGGCCCCCAAAATGCGTAAACCCAGGACCTTGAAATTTACTCATCCCAATGATAAT 2820
Db |||||||
QY 2821 TCCAAATGCTGTATCCCAAGGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db |||||||
QY 2821 TCCAAATGCTGTATCCCAAGGTAGGGTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
Db |||||||
QY 2881 CTCACGGCTTCCCTAACACCCCTCTCTCTTGCCCGCAGCTGGTCCCGCCACTTCCA 2940
Db |||||||
QY 2881 CTCACGGCTTCCCTAACACCCCTCTCTCTTGCCCGCAGCTGGTCCCGCCACTTCCA 2940
Db |||||||
QY 2941 CTCCTCTTACTCTCTTAGACTGGGTGATGAAGGCACTGCCCAAAATTTCCCTACC 3000
Db |||||||
QY 2941 CTCCTCTTACTCTCTTAGACTGGGTGATGAAGGCACTGCCCAAAATTTCCCTACC 3000
Db |||||||
QY 3001 CCCTCTTCCCTTACCCCAACTTTCCCGCAGCTCCCAACCCCTGTTGGAGCTACT 3060
Db |||||||
QY 3001 CCCTCTTCCCTTACCCCAACTTTCCCGCAGCTCCCAACCCCTGTTGGAGCTACT 3060
Db |||||||
QY 3061 GCAGACCAAGAGCAAAAGTGGGTGCTTCCCAAGCTTTGTCATCTCAGCCCCCAGAGT 3120
Db |||||||
QY 3061 GCAGACCAAGAGCAAAAGTGGGTGCTTCCCAAGCTTTGTCATCTCAGCCCCCAGAGT 3120
Db |||||||
QY 3121 ATATCTGTGTTGGGAATCTCACACAGAACTCAGAGGACACCCCTGCTGAGCTAAGG 3180
Db |||||||
QY 3121 ATATCTGTGTTGGGAATCTCACACAGAACTCAGAGGACACCCCTGCTGAGCTAAGG 3180
Db |||||||
QY 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGGCTTTGCAATATATGTCGTCTTATTAT 3240
Db |||||||
QY 3181 GAGGTCTTATCTCTCAGGGGGGTTTAAAGTGGCTTTGCAATATATGTCGTCTTATTAT 3240
Db |||||||
QY 3241 TAGCGGGGTGGAATTTTATATCTGTAAGTGGCAATCAGATATATGTTATGGTGACA 3300
Db |||||||
QY 3241 TAGCGGGGTGGAATTTTATATCTGTAAGTGGCAATCAGATATATGTTATGGTGACA 3300
Db |||||||
QY 3301 AAATTAAGGCTTCTTATATGTTTAAATTAAGGCTTAAATTAAGGCTTAAATTAAGGCT 3360
Db |||||||
QY 3361 AAATTAAGGCTTCTTATATGTTTAAATTAAGGCTTAAATTAAGGCTTAAATTAAGGCT 3410
Db |||||||
```

```
RESULT 8
US-09-895-793-110
; Sequence 110, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William F.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
```

```
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C2
; CURRENT APPLICATION NUMBER: US/09/895,793
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-895-793-110

Query Match 100.0%; Score 3410; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGAAACGAGCTGACGCGCTGCGGTGAGCAGCGCGCGCTCGGCCAGGATCTGA 60
Db |||||||
QY 1 GGGAAACGAGCTGACGCGCTGCGGTGAGCAGCGCGCGCTCGGCCAGGATCTGA 60
Db |||||||
QY 61 GTGATGAGACGTGTCCTCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGCTCAG 120
Db |||||||
QY 61 GTGATGAGACGTGTCCTCCACTGAGGTGCCCCACAGCAGCAGGTGTTGAGCATGGCTCAG 120
Db |||||||
QY 121 AAGCTGGACCGGCAACCAAGGGCTGGCAGAAATGGGGCCCTGGCTGATTCCTAGGCAGTT 180
Db |||||||
QY 121 AAGCTGGACCGGCAACCAAGGGCTGGCAGAAATGGGGCCCTGGCTGATTCCTAGGCAGTT 180
Db |||||||
QY 181 GGGCGCAAGAGGAGAGGCGCGAGCTTCTGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db |||||||
QY 181 GGGCGCAAGAGGAGAGGCGCGAGCTTCTGAGCAGAGCCGAGAGCAAGCAGTTCTG 240
Db |||||||
QY 241 GAGTGCCTGAACGCGCCCTGAGCGCTACCGCCCTGCCACTATGGTCCAGAGGCTGTG 300
Db |||||||
QY 241 GAGTGCCTGAACGCGCCCTGAGCGCTACCGCCCTGCCACTATGGTCCAGAGGCTGTG 300
Db |||||||
QY 301 GGTGAGCGGCTGCTGCGGCAACCGGAAAGCCAGCTCTTGTGTGCTCAACCTGCTAACCTT 360
Db |||||||
QY 301 GGTGAGCGGCTGCTGCGGCAACCGGAAAGCCAGCTCTTGTGTGCTCAACCTGCTAACCTT 360
Db |||||||
QY 361 TGGCTGAGAGGTGTTTGGCGCGCAGGATCACCTATGTGCGGCTCTGTCTGTGGAAGT 420
Db |||||||
QY 361 TGGCTGAGAGGTGTTTGGCGCGCAGGATCACCTATGTGCGGCTCTGTCTGTGGAAGT 420
Db |||||||
QY 421 GGGGTAGAGGAGGATTCATGACCATGTGCTGGGCAATGGTCCAGTGTGGGCTGGT 480
Db |||||||
QY 421 GGGGTAGAGGAGGATTCATGACCATGTGCTGGGCAATGGTCCAGTGTGGGCTGGT 480
Db |||||||
QY 481 CTGTGTCCTGCTCTAGGCTCAGCAGTACCTGCGGTGAGCGCTATGGCCGCGCGCG 540
Db |||||||
QY 481 CTGTGTCCTGCTCTAGGCTCAGCAGTACCTGCGGTGAGCGCTATGGCCGCGCGCG 540
Db |||||||
QY 541 GCGCTTATCTGGGCACTGCTGTTGGGAGTCTGCTGAGGCTCTTTCTATCCCAAGGGC 600
Db |||||||
QY 541 GCGCTTATCTGGGCACTGCTGTTGGGAGTCTGCTGAGGCTCTTTCTATCCCAAGGGC 600
Db |||||||
QY 601 CGGCTGGCTAGCAGGGCTGCTGTCGCCGATCCAGAGCCCTGGAGCTGGGCACTGCTCAT 660
Db |||||||
QY 601 CGGCTGGCTAGCAGGGCTGCTGTCGCCGATCCAGAGCCCTGGAGCTGGGCACTGCTCAT 660
Db |||||||
QY 661 CCTGGGCTGGGCTGCTGGAATTTCTGTGGCAGGTGTTGCTTCACTCCACTGGAGGCT 720
Db |||||||
QY 661 CCTGGGCTGGGCTGCTGGAATTTCTGTGGCAGGTGTTGCTTCACTCCACTGGAGGCT 720
Db |||||||
QY 721 GCTCTGTGACCTTCTCGGAGACCGGACCACTGTGCGCAGGCTTACTGTCTATGCTT 780
Db |||||||
QY 721 GCTCTGTGACCTTCTCGGAGACCGGACCACTGTGCGCAGGCTTACTGTCTATGCTT 780
Db |||||||
QY 781 CATGATCAGTCTTGGGGCTGCGCTGAGTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db |||||||
QY 781 CATGATCAGTCTTGGGGCTGCGCTGAGTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Db |||||||
```

Qy	841	TGCTTGGCCCTTACCTGGGCA	900
Db	841	TGCTTGGCCCTTACCTGGGCA	900
Qy	901	CTTCTCAGCTGAGGAGGAGG	960
Db	901	CTTCTCAGCTGAGGAGGAGG	960
Qy	961	CGAGCAGCAGAGGAGGAGG	1020
Db	961	CGAGCAGCAGAGGAGGAGG	1020
Qy	1021	CGCTTGGCTTTCGGAACCTG	1080
Db	1021	CGCTTGGCTTTCGGAACCTG	1080
Qy	1081	CATGCCCGCAGCCTGCGGCT	1140
Db	1081	CATGCCCGCAGCCTGCGGCT	1140
Qy	1141	GACCTTACGCTGTTTACAGG	1200
Db	1141	GACCTTACGCTGTTTACAGG	1200
Qy	1201	AGCTGAGCCGGGACCGAGG	1260
Db	1201	AGCTGAGCCGGGACCGAGG	1260
Qy	1261	GGGCTGTTCTGAGTGGGCT	1320
Db	1261	GGGCTGTTCTGAGTGGGCT	1320
Qy	1321	GCAGGATTGGGACTCGAGAG	1380
Db	1321	GCAGGATTGGGACTCGAGAG	1380
Qy	1381	CGGTGCCACATGCTGCCAG	1440
Db	1381	CGGTGCCACATGCTGCCAG	1440
Qy	1441	GTTACCTTCTCAGGCTGAG	1500
Db	1441	GTTACCTTCTCAGGCTGAG	1500
Qy	1501	GAAGCAGGTGTTCTGCCAA	1560
Db	1501	GAAGCAGGTGTTCTGCCAA	1560
Qy	1561	CCTGATGACCAAGCTTCTG	1620
Db	1561	CCTGATGACCAAGCTTCTG	1620
Qy	1621	GGGTGCTGGAGGAGTGGCT	1680
Db	1621	GGGTGCTGGAGGAGTGGCT	1680
Qy	1681	TGATGTCTCCGTACGTGTT	1740
Db	1681	TGATGTCTCCGTACGTGTT	1740
Qy	1741	GGGATCTGCTGGACCTCGC	1800
Db	1741	GGGATCTGCTGGACCTCGC	1800
Qy	1801	ATCCCTGTTATGGGCTCCAT	1860
Db	1801	ATCCCTGTTATGGGCTCCAT	1860
Qy	1861	TGCGCAGGCTGGGTCTGGT	1920
Db	1861	TGCGCAGGCTGGGTCTGGT	1920
Qy	1921	CGACTTGGCCAAATACTCAG	1980

Db	1921	CGACTTGGCCAAATACTCAG	1980
Qy	1981	CACCTGGTCCAGCTCCCGCT	2040
Db	1981	CACCTGGTCCAGCTCCCGCT	2040
Qy	2041	TTCTGTGCTGCCAAAGTAAT	2100
Db	2041	TTCTGTGCTGCCAAAGTAAT	2100
Qy	2101	GCTGCAAGCTGGGGGCTGGG	2160
Db	2101	GCTGCAAGCTGGGGGCTGGG	2160
Qy	2161	ACTGGAGGCTTCCAAAGG	2220
Db	2161	ACTGGAGGCTTCCAAAGG	2220
Qy	2221	ATGCACTGGAATGCGGGACT	2280
Db	2221	ATGCACTGGAATGCGGGACT	2280
Qy	2281	CTCTAGTTGAGACACACTAG	2340
Db	2281	CTCTAGTTGAGACACACTAG	2340
Qy	2341	GTCTCCCATCTTAAGCCCTT	2400
Db	2341	GTCTCCCATCTTAAGCCCTT	2400
Qy	2401	TTCTAGGATGAACACTCTCC	2460
Db	2401	TTCTAGGATGAACACTCTCC	2460
Qy	2461	GTCTGAGGGGCAACAACAAG	2520
Db	2461	GTCTGAGGGGCAACAACAAG	2520
Qy	2521	GATCCACCCCTCTTACCTTT	2580
Db	2521	GATCCACCCCTCTTACCTTT	2580
Qy	2581	CAGAGACAGGCAATTTAAAT	2640
Db	2581	CAGAGACAGGCAATTTAAAT	2640
Qy	2641	TGCTAGCTTTTCTGTGTGT	2700
Db	2641	TGCTAGCTTTTCTGTGTGT	2700
Qy	2701	GGTCCCTGAGATAGCTGGT	2760
Db	2701	GGTCCCTGAGATAGCTGGT	2760
Qy	2761	CTGGCCCCCAAAATGCTTAAC	2820
Db	2761	CTGGCCCCCAAAATGCTTAAC	2820
Qy	2821	TCCAAATGCTTTTACCCCAAG	2880
Db	2821	TCCAAATGCTTTTACCCCAAG	2880
Qy	2881	CTCAACGGCTTCCCTAACCA	2940
Db	2881	CTCAACGGCTTCCCTAACCA	2940
Qy	2941	CTCCCTCTACTCTCTTAGG	3000
Db	2941	CTCCCTCTACTCTCTTAGG	3000
Qy	3001	CCCAACTTCCCTTACCCCAAC	3060

Db 3001 CCCAACTTTCCCTACCCCAACTTTTCCCAACCAAGCTCCACAACCCCTGTTGGAGCTACT 3060
 QY 3061 GCAGACAGAGCAAAAGTGCAGTTCCTCCCAAGCTTTTGTCCATCTCAGCCCCCAGAGT 3120
 Db 3061 GCAGACAGAGCAAAAGTGCAGTTCCTCCCAAGCTTTTGTCCATCTCAGCCCCCAGAGT 3120
 QY 3121 ATATCTGTGCTTGGGGAATCTCACAGAACTCAGAGACACCCCTGCCTGAGCTAAGG 3180
 Db 3121 ATATCTGTGCTTGGGGAATCTCACAGAACTCAGAGACACCCCTGCCTGAGCTAAGG 3180
 QY 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTGCAGTTCGCAATATGTCCTTATTATT 3240
 Db 3181 GAGTCTTATCTCTCAGGGGGGTTTAAAGTGCAGTTCGCAATATGTCCTTATTATT 3240
 QY 3241 TAGCGGGTGAATATTTTATATCTGTAAGTGAAGTACAGATATATGTTATGTTGACA 3300
 Db 3241 TAGCGGGTGAATATTTTATATCTGTAAGTGAAGTACAGATATATGTTATGTTGACA 3300
 QY 3301 AAATTAAGGCTTTCTTATATGTTTAAAAAAAAGGCTTAAAGTGAAGTACAGATATATGTTATGTTGACA 3360
 Db 3301 AAATTAAGGCTTTCTTATATGTTTAAAAAAAAGGCTTAAAGTGAAGTACAGATATATGTTATGTTGACA 3360
 QY 3361 AAAAAAARAAAAAAGGCTTTCTTATATGTTTAAAAAAAAGGCTTAAAGTGAAGTACAGATATATGTTATGTTGACA 3410
 Db 3361 AAAAAAARAAAAAAGGCTTTCTTATATGTTTAAAAAAAAGGCTTAAAGTGAAGTACAGATATATGTTATGTTGACA 3410

RESULT 9

US-09-895-814-110
 ; Sequence 110, Application US/09895814
 ; Publication No. US20020193296A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yugu
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedwick, Thomas S.
 ; APPLICANT: Carter, Darick
 ; APPLICANT: Li, Samuel X.
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Hepler, William T.
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Hural, John
 ; APPLICANT: McNeill, Patricia D.
 ; APPLICANT: Houghton, Raymond L.
 ; APPLICANT: Vinals de Bassols, Carlota
 ; APPLICANT: Foy, Teresa
 ; APPLICANT: Fanger, Gary R.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
 ; FILE REFERENCE: 210121.427C26
 ; CURRENT APPLICATION NUMBER: US/09/895,814
 ; NUMBER OF SEQ ID NOS: 990
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 110
 ; LENGTH: 3410
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 ; US-09-895-814-110

Query Match 100.0%; Score 3410; DB 9; Length 3410;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 GGGAAACAGCCTGACAGCGCTGGCTCCGGGTGAACAGCCGCGCGCTCGGCCAGAGTCTGA 60
 QY 61 GTGATGAGACGTGTCCCACTGAGGTGCCCAACAGCAGCAGGTGTTGAGCATGSGCTGAG 120
 Db 61 GTGATGAGACGTGTCCCACTGAGGTGCCCAACAGCAGCAGGTGTTGAGCATGSGCTGAG 120
 QY 121 AAGTGAACCGGCAACCAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGCAGTT 180
 Db 121 AAGTGAACCGGCAACCAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGCAGTT 180
 QY 181 GCGGCGACGAGGAGGAGGCGCCAGCTTCTGAGCAGAGCCGAGAGCAGAGCAGAGTCTG 240
 Db 181 GCGGCGACGAGGAGGAGGCGCCAGCTTCTGAGCAGAGCCGAGAGCAGAGCAGAGTCTG 240
 QY 241 GAGTGCCTGAAACGCGCCCTGAGCCCTACCGCGCTGCGCCCACTATGTTCCAGAGGCTGTG 300
 Db 241 GAGTGCCTGAAACGCGCCCTGAGCCCTACCGCGCTGCGCCCACTATGTTCCAGAGGCTGTG 300
 QY 301 GGTGAGCGCGCTGTCGGGCAACCGGAAAGCCAGCTTCTGCTGTGTCACCTGCTAAACCTT 360
 Db 301 GGTGAGCGCGCTGTCGGGCAACCGGAAAGCCAGCTTCTGCTGTGTCACCTGCTAAACCTT 360
 QY 361 TGGCCTGAGAGTGTGTTGGCGCAGGCAATCACCTATGTCGCGCTCTGCTGCTGGAAGT 420
 Db 361 TGGCCTGAGAGTGTGTTGGCGCAGGCAATCACCTATGTCGCGCTCTGCTGCTGGAAGT 420
 QY 421 GGGGATAGAGGAGAAATTCATGACATGCTGGGCAATGCTCAGTGTCTGGGCTGCTGCT 480
 Db 421 GGGGATAGAGGAGAAATTCATGACATGCTGGGCAATGCTCAGTGTCTGGGCTGCTGCT 480
 QY 481 CTGTGTCCTGCTCTAGGCTCAGCAGTGAACCACTGGCGTGGAGCGCTATGCGCGCGCG 540
 Db 481 CTGTGTCCTGCTCTAGGCTCAGCAGTGAACCACTGGCGTGGAGCGCTATGCGCGCGCG 540
 QY 541 GCCCTTCATCTGGGCACTGCTTGGGCACTGCTGAGCGCTCTTCTCATCCCAAGGCG 600
 Db 541 GCCCTTCATCTGGGCACTGCTTGGGCACTGCTGAGCGCTCTTCTCATCCCAAGGCG 600
 QY 601 CGGCTGCTAGCAGGCTGCTGTGCGCGGATCCAGAGCCCTGGAGCTGGCACTGCTCAT 660
 Db 601 CGGCTGCTAGCAGGCTGCTGTGCGCGGATCCAGAGCCCTGGAGCTGGCACTGCTCAT 660
 QY 661 CTTGGGCGTGGGCTGCTGAGCTTCTGTGGCAGGCTGTCTTCACTCAGTGGAGGCGCT 720
 Db 661 CTTGGGCGTGGGCTGCTGAGCTTCTGTGGCAGGCTGTCTTCACTCAGTGGAGGCGCT 720
 QY 721 GCTCTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTCTGCTATGCTTATGCTT 780
 Db 721 GCTCTGACCTTTCGGGACCGGACCACTGTGCGCAGGCTTCTGCTATGCTTATGCTT 780
 QY 781 CATGATCAGTCTTGGGCGCTGCTGGGCTACCTCTGCTGCTGCTGCTGCTGCTGCTGCT 840
 Db 781 CATGATCAGTCTTGGGCGCTGCTGGGCTACCTCTGCTGCTGCTGCTGCTGCTGCTGCT 840
 QY 841 TGCCTGCGCCCTTACCTGGGACCCAGAGGAGTGTCTTGGCTGCTGCTGCTGCTGCTGCT 900
 Db 841 TGCCTGCGCCCTTACCTGGGACCCAGAGGAGTGTCTTGGCTGCTGCTGCTGCTGCTGCT 900
 QY 901 CTTCTCACCTGCTAGCAGCCACACTGTGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGG 960
 Db 901 CTTCTCACCTGCTAGCAGCCACACTGTGCTGCTGAGGAGGAGGAGGAGGAGGAGGAGG 960
 QY 961 CGAGCCAGAGAGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGCTGCTGCTGCTGCTGCT 1020
 Db 961 CGAGCCAGAGAGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGCTGCTGCTGCTGCTGCT 1020
 QY 1021 CCGCTTGGCTTTCGGAACTGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
 Db 1021 CCGCTTGGCTTTCGGAACTGCGGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1080
 QY 1081 CATCCCCGCACTGCGCGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140
 Db 1081 CATCCCCGCACTGCGCGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1140

1141 GACCTTCACGCTGTTTACACGATTTTCGTGGCGAGGGCTGTACACAGGGCGTCCCGAG 1200
1141 GACCTTCACGCTGTTTACACGATTTTCGTGGCGAGGGCTGTACACAGGGCGTCCCGAG 1200
1201 AGCTGAGCGGGCACCGAGGCCGAGAGACATATGATGAAGCGTTCGATGAGGAGCCT 1260
1201 AGCTGAGCGGGCACCGAGGCCGAGAGACATATGATGAAGCGTTCGATGAGGAGCCT 1260
1261 GGGGCTGTTCTGACAGTCGCGCATCTCCCTGGTCTTCTCTCTGGTTCATGAGACCGGCTGGT 1320
1261 GGGGCTGTTCTGACAGTCGCGCATCTCCCTGGTCTTCTCTCTGGTTCATGAGACCGGCTGGT 1320
1321 GCAGCGATTTCGACATCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGC 1380
1381 CGGTGCCACATGCTGTCCTCCACAGTGTGGCGTGGTGACAGCTTCAGCGCGCTCACCGG 1440
1441 GTTACACCTTCTCAGCCCTGCGAGATCCTGCCCCCTACACACTGGCCCTCCCTCTACCAACCGGGA 1500
1501 GAAGCAGGTGTTCTGCCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
1501 GAAGCAGGTGTTCTGCCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACAG 1560
1561 CCTGATACCAAGCTTCTGCCAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATGACACAGT 1620
1621 GGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGGCTG 1680
1621 GGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGGCTG 1680
1681 TGATGTCCTCCGTAGCTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGCGGGCGG 1740
1681 TGATGTCCTCCGTAGCTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGCGGGCGG 1740
1741 GGGCATCTGCTGACCTCGCCATCTCGGA TAGTGCCTTCTGCTGCCAGGTGGCCCC 1800
1741 GGGCATCTGCTGACCTCGCCATCTCGGA TAGTGCCTTCTGCTGCCAGGTGGCCCC 1800
1801 ATCCCTGTTATGGGCTCCATTGTTCCAGCTCAGCCAGTCTGCTCATATATGGTGTG 1860
1801 ATCCCTGTTATGGGCTCCATTGTTCCAGCTCAGCCAGTCTGCTCATATATGGTGTG 1860
1861 TGCCGACGGCTGGTCTGGTCCGCAATTTCTGCTACACAGGTAGTATTTGACAAGAG 1920
1861 TGCCGACGGCTGGTCTGGTCCGCAATTTCTGCTACACAGGTAGTATTTGACAAGAG 1920
1921 CGACTTGCCCAATACTCAGCGTAGAATACTTCAGACATTTGGGGTGGAGGGCTGCCT 1980
1921 CGACTTGCCCAATACTCAGCGTAGAATACTTCAGACATTTGGGGTGGAGGGCTGCCT 1980
1981 CACTGGGTCCAGCTCCCGCTCTGTTAGCCCATGGGGTGGCGGGCTGGCGGCCAGT 2040
1981 CACTGGGTCCAGCTCCCGCTCTGTTAGCCCATGGGGTGGCGGGCTGGCGGCCAGT 2040
2041 TTCTGTTGCTGCCAAAGTAATGGCTCTGCTGCTGCCACCTGCTGCTGAGGTGGTA 2100
2041 TTCTGTTGCTGCCAAAGTAATGGCTCTGCTGCTGCCACCTGCTGCTGAGGTGGTA 2100
2101 GCTGCACAGCTGGGGGCTGGGGCGTCCCTCTCTCTCCAGTCTCTAGGGCTGGCTG 2160
2101 GCTGCACAGCTGGGGGCTGGGGCGTCCCTCTCTCTCTCCAGTCTCTAGGGCTGGCTG 2160
2161 ACTGAGGCCCTTCAGAGGGGTTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220
2161 ACTGAGGCCCTTCAGAGGGGTTTCAGTCTGGACTTATACAGGAGGCGCAGAGGGCTCC 2220

2221 ATGCACCTGGAATGCGGGACTCTGACGTGGAATTAACAGGCTCAGGGTTAACAGCTAGC 2280
2221 ATGCACCTGGAATGCGGGACTCTGACGTGGAATTAACAGGCTCAGGGTTAACAGCTAGC 2280
2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
2281 CTCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGGAGCTGAATAAACTCAGTCACCTG 2340
2341 GTTTCCCATCTCTAAGCCCTTAACCTGACGTTTCTGTTAATGATAGCTCTTGGCATGGAG 2400
2341 GTTTCCCATCTCTAAGCCCTTAACCTGACGTTTCTGTTAATGATAGCTCTTGGCATGGAG 2400
2401 TTCTTAGGATGAACAACCTCTCCATGGGATTTGAACATATGACTTTATTTGAGGGGAAGA 2460
2401 TTCTTAGGATGAACAACCTCTCCATGGGATTTGAACATATGACTTTATTTGAGGGGAAGA 2460
2461 GTCTTAGGGGCAACACACAAGAACAGGTCCTCTCAGCCACAGCACTGTCTTTTGCT 2520
2461 GTCTTAGGGGCAACACACAAGAACAGGTCCTCTCAGCCACAGCACTGTCTTTTGCT 2520
2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTGGTCTCTCTGTCGCATCA 2580
2521 GATCCACCCCTCTTACCTTTTATCAGGATGTGGCCTGTGGTCTCTCTGTCGCATCA 2580
2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGAATCCAT 2640
2581 CAGAGACACAGGCAATTTAAATATTTAACTTATTTTAAACAAAGTAGAAGGAATCCAT 2640
2641 TGCTAGCTTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATGCCCAACAATCA 2700
2641 TGCTAGCTTTTCTGTGTGGTGTCTAATATTTGGGTAGGGTGGGGATGCCCAACAATCA 2700
2701 GGTCCCTGAGATAGCTGCTATTTGGGCTGATATTCGCCAGAACTTCTCTCTCTGGGT 2760
2701 GGTCCCTGAGATAGCTGCTATTTGGGCTGATATTTGGGCTGATATTCGCCAGAACTTCTCTCTCTGGGT 2760
2761 CTGCCCCCAAAATGCTTAACCCAGGACCTTTGAAAATTTCTACTCATCCCCAAATGATAT 2820
2761 CTGCCCCCAAAATGCTTAACCCAGGACCTTTGAAAATTTCTACTCATCCCCAAATGATAT 2820
2821 TCCAAATGCTTTTACCAAGGTTAGGTTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
2821 TCCAAATGCTTTTACCAAGGTTAGGTTGTGAAGGAAGGTAGAGGGTGGGGCTTCAGGT 2880
2881 CTCAAAGGCTTCCCTAACCCACCTCTCTCTTGGCCCCAGCTGTTCCCCCACTTCCA 2940
2881 CTCAAAGGCTTCCCTAACCCACCTCTCTCTTGGCCCCAGCTGTTCCCCCACTTCCA 2940
2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
2941 CTCCCTCTACTCTCTTAGGACTGGGCTGATGAAGGCACTGCCCAAAATTTCCCTTACC 3000
3001 CCCAAATTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
3001 CCCAAATTTCCCTTACCCCAACTTTTCCCAACAGCTTCCCAACCCCTGTTTGGAGCTACT 3060
3061 GCAGGACCAAGCACAAAGTGGGTTTTCCCAAGCTTTGTCATCTCAGCCCCCAGAGT 3120
3061 GCAGGACCAAGCACAAAGTGGGTTTTCCCAAGCTTTGTCATCTCAGCCCCCAGAGT 3120
3121 ATATCTGTGCTGGGGAATCTCACAGAAACTCAGGAGCAACCCCTGCTGAGCTAAGG 3180
3121 ATATCTGTGCTGGGGAATCTCACAGAAACTCAGGAGCAACCCCTGCTGAGCTAAGG 3180
3181 GAGTCTTATCTCTCAGGGGGGTTTTAAGTGGCTTTTGAATATATGTCGCTTATTTATT 3240
3181 GAGTCTTATCTCTCAGGGGGGTTTTAAGTGGCTTTTGAATATATGTCGCTTATTTATT 3240
3241 TAGCGGGGTGAATATTTTATCTAGTAGTGAACATCAGAGTAAATGTTTATGTCGCA 3300
3241 TAGCGGGGTGAATATTTTATCTAGTAGTGAACATCAGAGTAAATGTTTATGTCGCA 3300
3301 AAATTAAGGCTTCTTATATGTTTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360


```
Db 3301 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3360
Qy 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410
Db 3361 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 3410

RESULT 10
US-10-012-896-110
; Sequence 110, Application US/10012896
; Publication No. US20020183251A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-012-896-110

Query Match 100.0%; Score 3410; DB 13; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGAAACGAGCTGCACGCGTGGCTCCGGGTGACAGCCGCGCTCGCCAGAGATCTGA 60
Db 1 GGGAAACGAGCTGCACGCGTGGCTCCGGGTGACAGCCGCGCTCGCCAGAGATCTGA 60

Qy 61 GTGATGACAGTGTCCCACTGAGGTGCCACAGCAGAGGTGTGAGCATGGCTGAG 120
Db 61 GTGATGACAGTGTCCCACTGAGGTGCCACAGCAGAGGTGTGAGCATGGCTGAG 120

Qy 121 AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCCCTGGCTGATTCTTAGGCAGTT 180
Db 121 AAGCTGGACCGGCACAAAGGCTGGCAGAAATGGCGCCCTGGCTGATTCTTAGGCAGTT 180

Qy 181 GCGCGCAGCAAGAGGAGAGCGCCGAGCTTCTGGAGCAGAGCCGAGAGCAAGAGCTTCTG 240
Db 181 GCGCGCAGCAAGAGGAGAGCGCCGAGCTTCTGGAGCAGAGCCGAGAGCAAGAGCTTCTG 240

Qy 241 GAGTGCCCTGAAAGCGCCCTGAGCCCTACCGCCCTGCGCCCACTATGTTCCAGAGGCTGTG 300
Db 241 GAGTGCCCTGAAAGCGCCCTGAGCCCTACCGCCCTGCGCCCACTATGTTCCAGAGGCTGTG 300
```

```
Qy 301 GGTGAGCGCGCTGCTGCGGCACCGGAAAGCCAGCTCTTGCTGTGTCACATGCTGAACCTT 360
Db 301 GGTGAGCGCGCTGCTGCGGCACCGGAAAGCCAGCTCTTGCTGTGTCACATGCTGAACCTT 360

Qy 361 TGGCTGAGAGGTGTGTTTGGCGCAGGACATCACCTATGTGCGGCTCTGCTGCTGGAAGT 420
Db 361 TGGCTGAGAGGTGTGTTTGGCGCAGGACATCACCTATGTGCGGCTCTGCTGCTGGAAGT 420

Qy 421 GGGGTAGAGGAGAAAGTTTCATGACCATGTGCTGGGCATTTGGTCCAGTGTGGGCTGCT 480
Db 421 GGGGTAGAGGAGAAAGTTTCATGACCATGTGCTGGGCATTTGGTCCAGTGTGGGCTGCT 480

Qy 481 CTGTGTCCTCCGCTCTAGGCTCAGCCAGTGAACACTGGCGTGGAGCTATGGCCGCGCG 540
Db 481 CTGTGTCCTCCGCTCTAGGCTCAGCCAGTGAACACTGGCGTGGAGCTATGGCCGCGCG 540

Qy 541 GCCCTTCATCTGGGACATGCTCTTGGGATCCTGCTGAGCCTCTTTCTCATCCCAAGGCG 600
Db 541 GCCCTTCATCTGGGACATGCTCTTGGGATCCTGCTGAGCCTCTTTCTCATCCCAAGGCG 600

Qy 601 CGGCTGGTAGCAGGCGCTGCTGTCGCCGATCCCGAGCCCTGGAGCTGGCACTGCTCAT 660
Db 601 CGGCTGGTAGCAGGCGCTGCTGTCGCCGATCCCGAGCCCTGGAGCTGGCACTGCTCAT 660

Qy 661 CCTGGCGTGGGCTGCTGGAATTTCTGTGGCCAGGTGTGTTCACTCCACTGGAGGCGCT 720
Db 661 CCTGGCGTGGGCTGCTGGAATTTCTGTGGCCAGGTGTGTTCACTCCACTGGAGGCGCT 720

Qy 721 GCTCTGACCTCTTCCGGGACCCGAGACCATGTGTCGCGAGCCTACTCTGTATGCTT 780
Db 721 GCTCTGACCTCTTCCGGGACCCGAGACCATGTGTCGCGAGCCTACTCTGTATGCTT 780

Qy 781 CATGATCAGTCTTGGGCGCTGCTGGGCTACTCTGCTGCCATTTGACTGGGACACCAG 840
Db 781 CATGATCAGTCTTGGGCGCTGCTGGGCTACTCTGCTGCCATTTGACTGGGACACCAG 840

Qy 841 TGCCCTGGCCCCCTACCTGGGCAACCCAGGAGGAGTGTCTTTGGGCTGTGTCACCTCAT 900
Db 841 TGCCCTGGCCCCCTACCTGGGCAACCCAGGAGGAGTGTCTTTGGGCTGTGTCACCTCAT 900

Qy 901 CTTCTCAGCTGCTAGCAGCCACACTGTGTTGGCTGAGGAGGAGGCGCTGGGCGCCAC 960
Db 901 CTTCTCAGCTGCTAGCAGCCACACTGTGTTGGCTGAGGAGGAGGCGCTGGGCGCCAC 960

Qy 961 CGAGCCAGCAAGAGGCTGTGCGGCCCTCTCTGTCGCCACCTGTGTCATGCGGCG 1020
Db 961 CGAGCCAGCAAGAGGCTGTGCGGCCCTCTCTGTCGCCACCTGTGTCATGCGGCG 1020

Qy 1021 CCGCTTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGGCTGCACCAAGCTGTGCTGCG 1080
Db 1021 CCGCTTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGGCTGCACCAAGCTGTGCTGCG 1080

Qy 1081 CATGCCCCGACCCCTGCGCGGCTCTTGTGTTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140
Db 1081 CATGCCCCGACCCCTGCGCGGCTCTTGTGTTGGCTGAGCTGTGAGCTGGATGGCACTCAT 1140

Qy 1141 GACCTTCAGCGCTGTTTACACGGAATTTCTGGGCGAGGGGCTGTACAGAGGCGTGGCCAG 1200
Db 1141 GACCTTCAGCGCTGTTTACACGGAATTTCTGGGCGAGGGGCTGTACAGAGGCGTGGCCAG 1200

Qy 1201 AGCTGAGCCGCGCACCGAGGCGCCGAGACACTATGATGAAGGCGTTTGGATGGGAGGCT 1260
Db 1201 AGCTGAGCCGCGCACCGAGGCGCCGAGACACTATGATGAAGGCGTTTGGATGGGAGGCT 1260

Qy 1261 GGGGCTGTTCTGAGTGGCCATCTCCCTGGTCTTCTCTGCTGTCATGGACCGGCTGTT 1320
Db 1261 GGGGCTGTTCTGAGTGGCCATCTCCCTGGTCTTCTCTGCTGTCATGGACCGGCTGTT 1320

Qy 1321 GCAGCGATTGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGTC 1380
Db 1321 GCAGCGATTGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGTC 1380
```


; APPLICANT: Jiang Yuqui									
; APPLICANT: Reed, Steven G.									
; APPLICANT: Kalos, Michael									
; APPLICANT: Fanger, Gary									
; APPLICANT: Retter, Mark									
; APPLICANT: Solk, John									
; APPLICANT: Day, Craig									
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND									
; FILE REFERENCE: 210121.427D3									
; CURRENT APPLICATION NUMBER: US/10/010,940									
; CURRENT FILING DATE: 2001-12-05									
; NUMBER OF SEQ ID NOS: 575									
; SOFTWARE: FastSeq for Windows Version 3.0									
; SEQ ID NO 110									
; LENGTH: 3410									
; TYPE: DNA									
; ORGANISM: Homo sapien									
US-10-010-940-110									
Query Match 100.0%; Score 3410; DB 14; Length 3410;									
Best Local Similarity 100.0%; Pred. No. 0;									
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	GGGAACCAAGCCTGACGCGCTGGCTCCGGGTGACAGCCGCGCCTCGGCCAGGATCTGA	60						
Db	1	GGGAACCAAGCCTGACGCGCTGGCTCCGGGTGACAGCCGCGCCTCGGCCAGGATCTGA	60						
Qy	61	GTGATGAGACGTGTCCTCCACTAGGTGCCCCACAGCAGCAGGTGTGAGCATGGCTGAG	120						
Db	61	GTGATGAGACGTGTCTCCCACTAGGTGCCCCACAGCAGCAGGTGTGAGCATGGCTGAG	120						
Qy	121	AAGCTGGACCGGCACAAAGGCTCGCAGAAATGGCGCCTGGCTGATTCTTAGGCAGTT	180						
Db	121	AAGCTGGACCGGCACAAAGGCTCGCAGAAATGGCGCCTGGCTGATTCTTAGGCAGTT	180						
Qy	181	GGCGCAGCAAGAGGAGAGCGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAAGTCTG	240						
Db	181	GGCGCAGCAAGAGGAGAGCGCGCAGCTTCTGGAGCAGAGCCGAGAGCAAGCAAGTCTG	240						
Qy	241	GAGTGCCTGACGGGCCCCCTGAGCCCTACCGCCTGCGCCCTATGTTCCAGAGGCTGTG	300						
Db	241	GAGTGCCTGACGGGCCCCCTGAGCCCTACCGCCTGCGCCCTATGTTCCAGAGGCTGTG	300						
Qy	301	GGTGAGCGCCTGCTGCGGCACCGGAAAGCCAGCTCTTGTGTTGCTCAACCTGCTAACCTT	360						
Db	301	GGTGAGCGCCTGCTGCGGCACCGGAAAGCCAGCTCTTGTGTTGCTCAACCTGCTAACCTT	360						
Qy	361	TGGCCTGAGAGTGTGTTTGGCGCAGGCAATCACTATGTGCGCCTCTGCTGCTGGAAGT	420						
Db	361	TGGCCTGAGAGTGTGTTTGGCGCAGGCAATCACTATGTGCGCCTCTGCTGCTGGAAGT	420						
Qy	421	GGGGTAGAGAGATTCATGACCATGTTGCTGGGCATTGGTCAGTGTGGGCTGGT	480						
Db	421	GGGGTAGAGAGATTCATGACCATGTTGCTGGGCATTGGTCAGTGTGGGCTGGT	480						
Qy	481	CTGTGTCCTGCTTCTAGCTAGCAGTGACCACTGGCGTGAGCCTATGCGCGCGCGG	540						
Db	481	CTGTGTCCTGCTTCTAGGCTTAGCAGTGACCACTGGCGTGAGCCTATGCGCGCGCGG	540						
Qy	541	GCCCTTCATCTGGGCACTGTCTTGGGCAATCCTGCTGAGCCTCTTCTTCATCCCAAGGC	600						
Db	541	GCCCTTCATCTGGGCACTGTCTTGGGCAATCCTGCTGAGCCTCTTCTTCATCCCAAGGC	600						
Qy	601	CGGCTGGCTAGCAGGGCTGTGTGCCCCGATCCAGGCCCTTGGAGCTGGCACTGCTCAT	660						
Db	601	CGGCTGGCTAGCAGGGCTGTGTGCCCCGATCCAGGCCCTTGGAGCTGGCACTGCTCAT	660						
Qy	661	CCTGGGCGTGGGCTGTGGACTCTGTGGCCAGGTGTGTTCACTCCCACTGGAGGCCCT	720						
Db	661	CCTGGGCGTGGGCTGTGGACTCTGTGGCCAGGTGTGTTCACTCCCACTGGAGGCCCT	720						
Qy	721	GCTCTCTGACCTCTTTCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATGCTT	780						

Db	721	GCTCTCTGACCTCTTTCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATGCTT	780
Qy	781	CATGATCAGTCTTGGGGCTGCTGGGTACTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	840
Db	781	CATGATCAGTCTTGGGGCTGCTGGGTACTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	840
Qy	841	TGCCCTGGCCCCCTTACCTTGGGCACCCAGGAGAGTGTCTCTTTGGCCTGCTCACCCTCAT	900
Db	841	TGCCCTGGCCCCCTTACCTTGGGCACCCAGGAGAGTGTCTCTTTGGCCTGCTCACCCTCAT	900
Qy	901	CTTCTCCTCCTGCTAGAGCCACACTGTCTGTGGCTGAGAGAGCAGCGCTGGGCCCCAC	960
Db	901	CTTCTCCTCCTGCTAGAGCCACACTGTCTGTGGCTGAGAGAGCAGCGCTGGGCCCCAC	960
Qy	961	CGAGCCAGCAGAGGGCTGTGCGGCCCTCTCTGTGCGCCCACTGTCTCCTACCTGCCGGC	1020
Db	961	CGAGCCAGCAGAGGGCTGTGCGGCCCTCTCTGTGCGCCCACTGTCTCCTACCTGCCGGC	1020
Qy	1021	CCGCTTGGCTTTCGGGAACCTTGGGCGCCTGCTTCCCGGCTGCACACAGCTGTGTGCGG	1080
Db	1021	CCGCTTGGCTTTCGGGAACCTTGGGCGCCTGCTTCCCGGCTGCACACAGCTGTGTGCGG	1080
Qy	1081	CATCCCGCAGCCTGCGCGGCTCTTCTGTGGCTGAGCTGTGAGCTGATGGACCTCAT	1140
Db	1081	CATCCCGCAGCCTGCGCGGCTCTTCTGTGGCTGAGCTGTGAGCTGATGGACCTCAT	1140
Qy	1141	GACCTTCACCTGTTTACACGGATTTCTGGGCGAGGGCTGTACAGAGCGGTGCCAG	1200
Db	1141	GACCTTCACCTGTTTACACGGATTTCTGGGCGAGGGCTGTACAGAGCGGTGCCAG	1200
Qy	1201	AGCTGAGCCGGGACACAGAGCCCGGAGACACTATGATGAAGCGCTTCGGATGGGACGCT	1260
Db	1201	AGCTGAGCCGGGACACAGAGCCCGGAGACACTATGATGAAGCGCTTCGGATGGGACGCT	1260
Qy	1261	GGGCTGTTCTGCAGTGCGCCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1320
Db	1261	GGGCTGTTCTGCAGTGCGCCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	1320
Qy	1321	GCAGCATTCGGCACTCGAGCAGTATTTGGCCAGTGTGGCAGTGTTCCTGCTGCTGCTG	1380
Db	1321	GCAGCATTCGGCACTCGAGCAGTATTTGGCCAGTGTGGCAGTGTTCCTGCTGCTGCTG	1380
Qy	1381	CGGTGCCACATGCTGCTGCCACAGTGTGGCGTGTGACAGCTTTCAGCGCCCTCACCGG	1440
Db	1381	CGGTGCCACATGCTGCTGCCACAGTGTGGCGTGTGACAGCTTTCAGCGCCCTCACCGG	1440
Qy	1441	GTTCACTTCTCAGCCCTGACAGATCTTCCCTACACACTGGCCTCCCTCTACCAACCGGGA	1500
Db	1441	GTTCACTTCTCAGCCCTGACAGATCTTCCCTACACACTGGCCTCCCTCTACCAACCGGGA	1500
Qy	1501	GAAGCAGTGTCTGCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACG	1560
Db	1501	GAAGCAGTGTCTGCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGACG	1560
Qy	1561	CCTGATCACCAGCTTCTGCGCAGGCCCTTAAGCCTGAGCTCCCTTCCCTAATGACACGT	1620
Db	1561	CCTGATCACCAGCTTCTGCGCAGGCCCTTAAGCCTGAGCTCCCTTCCCTAATGACACGT	1620
Qy	1621	GGGTGCTGAGAGCAGTGGCTGCTCCCACTCAGCCGCTCTGCGGGGCTCTGCTGCTG	1680
Db	1621	GGGTGCTGAGAGCAGTGGCTGCTCCCACTCAGCCGCTCTGCGGGGCTCTGCTGCTG	1680
Qy	1681	TGATGCTCCTGTCAGTGTGGTGTGGGTGAGCCACCGAGCCAGGGTGTTCCTCGGGCGG	1740
Db	1681	TGATGCTCCTGTCAGTGTGGTGTGGGTGAGCCACCGAGCCAGGGTGTTCCTCGGGCGG	1740
Qy	1741	GGGCACTGCTGCTGACCTCGCCATCTCTGATGATGCTCTCTGCTGCTGCTGCTGCTGCT	1800
Db	1741	GGGCACTGCTGCTGACCTCGCCATCTCTGATGATGCTCTCTGCTGCTGCTGCTGCTGCT	1800
Qy	1801	ATCCCTGTTTATGGGCTCCTATGTCAGCTCAGCCAGTGTGTCTGCTATATGCTGCTC	1860

; ORGANISM: Homo sapiens									
US-10-144-678A-110									
Query Match									
Best Local Similarity 100.0%; Score 3410; DB 16; Length 3410;									
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	GGGAACCAAGCTGACGCGCTGGCTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA	60						
Db	1	GGGAACCAAGCTGACGCGCTGGCTCCGGGTGACAGCCGCGCTCGGCCAGGATCTGA	60						
Qy	61	GTGATGAGACGTGTCCTCCACTAGGTGCCGACAGCAGAGGTGTGAGCATGGGCTGAG	120						
Db	61	GTGATGAGACGTGTCCTCCACTAGGTGCCGACAGCAGAGGTGTGAGCATGGGCTGAG	120						
Qy	121	AAGCTGGACCGGACCAAAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAATT	180						
Db	121	AAGCTGGACCGGACCAAAAGGCTGGCAGAAATGGGCGCTGGCTGATTCCTAGGCAATT	180						
Qy	181	GGCGCAGCAGAGGAGGAGGCGGAGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG	240						
Db	181	GGCGCAGCAGAGGAGGAGGCGGAGCTTCTGGAGCAGAGCCGAGACGAAAGCAGTTCTG	240						
Qy	241	GAGTGCCCTGAACGGGCCCCCTGAGCCCTAACCGCTGAGCCCTGAGCTGAGAGGCTGTG	300						
Db	241	GAGTGCCCTGAACGGGCCCCCTGAGCCCTAACCGCTGAGCCCTGAGCTGAGAGGCTGTG	300						
Qy	301	GGTGAGCGCGCTGCTGCGGCAACGAAAGCCAGCTCTTGCTGGTCAACCTGTAACCTT	360						
Db	301	GGTGAGCGCGCTGCTGCGGCAACGAAAGCCAGCTCTTGCTGGTCAACCTGTAACCTT	360						
Qy	361	TGGCTTGAAGGTGTTTGGCGCAGGATCACTATGTGCGCTCTGCTGCTGGAAGT	420						
Db	361	TGGCTTGAAGGTGTTTGGCGCAGGATCACTATGTGCGCTCTGCTGCTGGAAGT	420						
Qy	421	GGGGTAGAGGAAGTTATGACCATGGTGTGGGCAATGGTCAAGTGTGGGCTGGT	480						
Db	421	GGGGTAGAGGAAGTTATGACCATGGTGTGGGCAATGGTCAAGTGTGGGCTGGT	480						
Qy	481	CTGTGCTCCGCTCTAGGCTCAGCAGTACACCTATGTGCGCTCTGCTGCTGGAAGT	540						
Db	481	CTGTGCTCCGCTCTAGGCTCAGCAGTACACCTATGTGCGCTCTGCTGCTGGAAGT	540						
Qy	541	GCCCTTCACTTGGGCACTGCTTGGGCACTCTGCTGAGCCCTTCTTCTATCCCAAGGCG	600						
Db	541	GCCCTTCACTTGGGCACTGCTTGGGCACTCTGCTGAGCCCTTCTTCTATCCCAAGGCG	600						
Qy	601	CGGCTGGCTAGAGGCTGTGTGCGCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT	660						
Db	601	CGGCTGGCTAGAGGCTGTGTGCGCGGATCCAGGCCCTTGGAGCTGGCACTGCTCAT	660						
Qy	661	CCTGGGCTGGGCTGTGGACTTCTGCGCAGGTGCTTCACTCCAGCTGGAGGCCCT	720						
Db	661	CCTGGGCTGGGCTGTGGACTTCTGCGCAGGTGCTTCACTCCAGCTGGAGGCCCT	720						
Qy	721	GCTCTCTGACCTTTCGGGACCCGACCTGTGCGCAGGCTACTCTGCTATGCGCTT	780						
Db	721	GCTCTCTGACCTTTCGGGACCCGACCACTGTGCGCAGGCTACTCTGCTATGCGCTT	780						
Qy	781	CATGATCAGTCTTGGGGCTGTGGGCTACCTCTGCTGCGCATTTGATGGGACACAG	840						
Db	781	CATGATCAGTCTTGGGGCTGTGGGCTACCTCTGCTGCGCATTTGATGGGACACAG	840						
Qy	841	TGCCCTGGCCCCCTACCTGGGACCCAGAGGAGTGCCTTTTGGCCTGCTCACTCAT	900						
Db	841	TGCCCTGGCCCCCTACCTGGGACCCAGAGGAGTGCCTTTTGGCCTGCTCACTCAT	900						
Qy	901	CTTCTCACTGCTGAGGACCACTGCTGCTGAGGAGGAGGCTGGGCCCCAC	960						
Db	901	CTTCTCACTGCTGAGGACCACTGCTGCTGAGGAGGAGGCTGGGCCCCAC	960						
Qy	961	CGAGCAGCAGAGGCTGTGGGCCCCCTCTTGTGCGCCCCACTGCTGTCATGCGGGC	1020						

Db	961	CGAGCAGCAGAGGCTGTGCGGCCCCCTCTTGTGCGCCCCACTGCTGTCATGCGGGC	1020
Qy	1021	CCGCTTGGCTTTCGGAAACCTTGGCGCGCTCTTCCCGGCTGCAACAGCTGTGCTGCGG	1080
Db	1021	CCGCTTGGCTTTCGGAAACCTTGGCGCGCTCTTCCCGGCTGCAACAGCTGTGCTGCGG	1080
Qy	1081	CATCCCCGCAACCTGCGCGCGCTTCTGTGGCTGAGCTGTGCACTGGAATGGCACTCAT	1140
Db	1081	CATCCCCGCAACCTGCGCGCGCTTCTGTGGCTGAGCTGTGCACTGGAATGGCACTCAT	1140
Qy	1141	GACCTTCAAGCTGTTTACACGGAATTTGTGGGCGAGGGCTGTACAGGGGCTGCCAG	1200
Db	1141	GACCTTCAAGCTGTTTACACGGAATTTGTGGGCGAGGGCTGTACAGGGGCTGCCAG	1200
Qy	1201	AGCTGAGCGGGCACCGAGGCCCGGAGACACTATATGAAGCGTTCCGATGGGAGCT	1260
Db	1201	AGCTGAGCGGGCACCGAGGCCCGGAGACACTATATGAAGCGTTCCGATGGGAGCT	1260
Qy	1261	GGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGAGACCGCTGGT	1320
Db	1261	GGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGAGACCGCTGGT	1320
Qy	1321	GCAGCGATTGGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC	1380
Db	1321	GCAGCGATTGGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTCCCTGTGGCTGC	1380
Qy	1381	CGGTGCCACATGCTGCTCCCAAGTGTGGCGTGTGACAGCTTTCAGCGCGCTCACCGG	1440
Db	1381	CGGTGCCACATGCTGCTCCCAAGTGTGGCGTGTGACAGCTTTCAGCGCGCTCACCGG	1440
Qy	1441	GTTCACCTTCTCAGCCCTGCGAGATCTCTGCCCTACACACTGGCCCTCCCTTACCAACCGGA	1500
Db	1441	GTTCACCTTCTCAGCCCTGCGAGATCTCTGCCCTACACACTGGCCCTCCCTTACCAACCGGA	1500
Qy	1501	GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG	1560
Db	1501	GAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAG	1560
Qy	1561	CCTGATCAGCAGCTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACGT	1620
Db	1561	CCTGATCAGCAGCTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACGT	1620
Qy	1621	GGGTGCTGGAGGAGTGGCTGCTCCCACTCCACCGCGCTCTGCGGGGCTCTGCGCTG	1680
Db	1621	GGGTGCTGGAGGAGTGGCTGCTCCCACTCCACCGCGCTCTGCGGGGCTCTGCGCTG	1680
Qy	1681	TGATGCTCTCGTAGCTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCGG	1740
Db	1681	TGATGCTCTCGTAGCTGTGGTGGGTGAGCCCAACCGAGGCCAGGGTGGTTCGGGGCGG	1740
Qy	1741	GGGCATCTGCTGAGCCTCGCCATCTCGGATAGTGTCTTCTGCTGCCAGGTGGCCCC	1800
Db	1741	GGGCATCTGCTGAGCCTCGCCATCTCGGATAGTGTCTTCTGCTGCCAGGTGGCCCC	1800
Qy	1801	ATCCCTGTTATGGGCTCCATTTGTCAGCTCAGCCAGTGTGTCTACTGCTATATGGTGTG	1860
Db	1801	ATCCCTGTTATGGGCTCCATTTGTCAGCTCAGCCAGTGTGTCTACTGCTATATGGTGTG	1860
Qy	1861	TGCCGAGGCTGGGTCTGGTCCGCAATTTACTTTGTCTACACAGGTAGTATTTGACAGAG	1920
Db	1861	TGCCGAGGCTGGGTCTGGTCCGCAATTTACTTTGTCTACACAGGTAGTATTTGACAGAG	1920
Qy	1921	CGACTTGGCCAAATACCTCAGCTGAGAAATCTTCAGCACATTTGGGGTGGAGGGCTGCT	1980
Db	1921	CGACTTGGCCAAATACCTCAGCTGAGAAATCTTCAGCACATTTGGGGTGGAGGGCTGCT	1980
Qy	1981	CATGGGTCCAGCTCCCGCTCCTGTAGCCCCCATGGGGTGTGCGGGCTGGCGCCAGT	2040
Db	1981	CATGGGTCCAGCTCCCGCTCCTGTGTAGCCCCCATGGGGTGTGCGGGCTGGCGCCAGT	2040
Qy	2041	TTCTGTTGCTGCCAAAGTAAATGGCTCTCTGCTGCGCCCACTGCTGCTGAGGTGCGTA	2100
Db	2041	TTCTGTTGCTGCCAAAGTAAATGGCTCTCTGCTGCGCCCACTGCTGCTGAGGTGCGTA	2100

Qy	481	CTGTGTCCCGCTCTTAGGCTCAGCCAGTGACCACTGGCGTGGACGCTATATGGCCCGCCCGC	540
Db	481	CTGTGTCCCGCTCTTAGGCTCAGCCAGTGACCACTGGCGTGGACGCTATATGGCCCGCCCGC	540
Qy	541	GCCCTTCATCTGGGCACTGTCTTGGGCACTCTGTAGCCCTCTTTCTCATGCCAAGGGC	600
Db	541	GCCCTTCATCTGGGCACTGTCTTGGGCACTCTGTAGCCCTCTTTCTCATGCCAAGGGC	600
Qy	601	CGGCTGGCTAGCAGGGCTGTGTGCCGGGATCCACAGGCCCTGGAGCTGGCACTGCTCAT	660
Db	601	CGGCTGGCTAGCAGGGCTGTGTGCCGGGATCCACAGGCCCTGGAGCTGGCACTGCTCAT	660
Qy	661	CCTGGGCGTGGGCTGTCTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGCGCT	720
Db	661	CCTGGGCGTGGGCTGTCTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGCGCT	720
Qy	721	GCTCTCTGACCTCTTTCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTCTATGCTT	780
Db	721	GCTCTCTGACCTCTTTCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTCTATGCTT	780
Qy	781	CATGATCAGTCTTGGGGGCTGCCCTGGGTACTCTCTGCTGCCATTGACTGGGACACAG	840
Db	781	CATGATCAGTCTTGGGGGCTGCCCTGGGTACTCTCTGCTGCCATTGACTGGGACACAG	840
Qy	841	TGCCCTGGCCCCCTACTTGGGCAACCAAGAGAGTGTCTCTTTGGCCTGTCTCACCTCAT	900
Db	841	TGCCCTGGCCCCCTACTTGGGCAACCAAGAGAGTGTCTCTTTGGCCTGTCTCACCTCAT	900
Qy	901	CTTCTCTACCTGCTGTAGCAGCCACACTGTGTGTGGCTGAGGAGCAGCGTGGGCCCCAC	960
Db	901	CTTCTCTACCTGCTGTAGCAGCCACACTGTGTGTGGCTGAGGAGCAGCGTGGGCCCCAC	960
Qy	961	CGAGCCAGCAGAAGGGCTGTGCGGCCCTCTCTTGTGCCCCCACTGTCTGTCCATGCCGGGC	1020
Db	961	CGAGCCAGCAGAAGGGCTGTGCGGCCCTCTCTTGTGCCCCCACTGTCTGTCCATGCCGGGC	1020
Qy	1021	CCGCTTGGCTTTCGGAAACTGGGGGCGCTGTCTTCCCGGGTGACACAGCTGTCTGCGC	1080
Db	1021	CCGCTTGGCTTTCGGAAACTGGGGGCGCTGTCTTCCCGGGTGACACAGCTGTCTGCGC	1080
Qy	1081	CATGCCCGCACCTGTGCGCGGCTCTTCTGTGGCTGAGCTGTGACGTGGATGGCACTCAT	1140
Db	1081	CATGCCCGCACCTGTGCGCGGCTCTTCTGTGGCTGAGCTGTGACGTGGATGGCACTCAT	1140
Qy	1141	GACCTTCACGTGTFTTTACACGGAATTTCTGTGGCGAGGGGCTGTACAGGGCGTGCCACG	1200
Db	1141	GACCTTCACGTGTFTTTACACGGAATTTCTGTGGCGAGGGGCTGTGTACAGGGCGTGCCACG	1200
Qy	1201	AGCTGAGCCGGGACACGAGGCCCGGAGACACTATGATGAAGGGGTTCCGGATGGCAGCCT	1260
Db	1201	AGCTGAGCCGGGACACGAGGCCCGGAGACACTATGATGAAGGGGTTCCGGATGGCAGCCT	1260
Qy	1261	GGGGCTGTTCCTGCAGTGGCCACTCTCCCTGGTCTTCTCTGTGTATGACACCGGCTGGT	1320
Db	1261	GGGGCTGTTCCTGCAGTGGGCCACTCTCCCTGGTCTTCTCTGTGTATGACACCGGCTGGT	1320
Qy	1321	GCAGCGATTCGGCACTCGACAGTCTATTTGGCCAGTGTGTGGCAGCTTTCCTGTGGCTGC	1380
Db	1321	GCAGCGATTCGGCACTCGACAGTCTATTTGGCCAGTGTGTGGCAGCTTTCCTGTGGCTGC	1380
Qy	1381	CGGTGCCACATGCTGTCCACAGTGTGGCGGTGTGACAGCTTCAGCGCCCTCACCGG	1440
Db	1381	CGGTGCCACATGCTGTCCACAGTGTGGCGGTGTGACAGCTTCAGCGCCCTCACCGG	1440
Qy	1441	GTTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGGCTCTCTTACACCGGGA	1500
Db	1441	GTTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGGCTCTCTTACACCGGGA	1500
Qy	1501	GAAGCAGGTGTCTCTGCCCAATAACGAGGGGACACTGGAGGTGTCTAGCAGTGAAGACAG	1560
Db	1501	GAAGCAGGTGTCTCTGCCCAATAACGAGGGGACACTGGAGGTGTCTAGCAGTGAAGACAG	1560

Qy	1561	CCTGATGACAGAGCTTCTGCGAGGCCCTTAAGCCTGAGAGTCCCTTCCCTTAATGGACACAGT	1620
Db	1561	CCTGATGACACAGCTTCTTGCGACGCCCTAAGCCTGAGAGTCCCTTCCCTTAATGGACACAGT	1620
Qy	1621	GGGTGCTGGAGGAGTGGCTGCTCCACACTCCACCCGGCTCTGGGGGCCCTCTGCCTG	1680
Db	1621	GGGTGCTGGAGGAGTGGCTGCTGCTCCACCTCCACCCGGCTCTGGGGGCCCTCTGCCTG	1680
Qy	1681	TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCACAGGTGGTTCGGGGCCG	1740
Db	1681	TGATGTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCACAGGTGGTTCGGGGCCG	1740
Qy	1741	GGGCACTGCTGCTGGAACTCGCCACTCTGGANATGTGCTTCTGCTGTCCACAGTGGCCCC	1800
Db	1741	GGGCACTGCTGCTGGAACTCGCCACTCTGGANATGTGCTTCTGCTGTCCACAGTGGCCCC	1800
Qy	1801	ATCCCTGTTTATGGGCTCCAATGTGCAGCTCAGCCAGTCTGTCACTTGCCTATATGTGTCT	1860
Db	1801	ATCCCTGTTTATGGGCTCCAATGTGCAGCTCAGCCAGTCTGTCACTTGCCTATATGTGTCT	1860
Qy	1861	TGCGCAGGCTGGGTCTGGTCCGCACTTACTTTGCTACACAGGTAGTATTTTGACAAGAG	1920
Db	1861	TGCGCAGGCTGGGTCTGGTCCGCACTTACTTTGCTACACAGGTAGTATTTTGACAAGAG	1920
Qy	1921	CGACTTTGGCCAAATACTACGCTAGAAACTTCCAGCACATTTGGGTGGAGGCCCTGCGCT	1980
Db	1921	CGACTTTGGCCAAATACTACGCTAGAAACTTCCAGCACATTTGGGTGGAGGCCCTGCGCT	1980
Qy	1981	CACTGGGTCCAGCTCCCGCTCCTGTTAGCCCCATGGGGCTGCCGGCTGGCCGCCAGT	2040
Db	1981	CACTGGGTCCAGCTCCCGCTCCTGTTAGCCCCATGGGGCTGCCGGCTGGCCGCCAGT	2040
Qy	2041	TTCTGTTGCTGCCAAAGTAATGTGGTCTCTGCTGCCACCCCTGTCTCTGAGGTCCGTA	2100
Db	2041	TTCTGTTGCTGCCAAAGTAATGTGGTCTCTGCTGCCACCCCTGTCTCTGAGGTCCGTA	2100
Qy	2101	GCTGCACAGCTGGGGCTGGGGCTCCCTCTCTCTCTCCCCAGTCTCTAGGCTGCCTG	2160
Db	2101	GCTGCACAGCTGGGGCTGGGGCTCCCTCTCTCTCTCCCCAGTCTCTAGGCTGCCTG	2160
Qy	2161	ACTGGAGCCCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGCCAGAAGGCTCC	2220
Db	2161	ACTGGAGCCCTTCCAAAGGGGTTTCAGTCTGGACTTATACAGGGAGCCAGAAGGCTCC	2220
Qy	2221	ATGCACCTGGAAATCGGGGACTCTGCAGGTGGATTACCCAGGCTCAGGTTAACAGCTAGC	2280
Db	2221	ATGCACCTGGAAATCGGGGACTCTGCAGGTGGATTACCCAGGCTCAGGTTAACAGCTAGC	2280
Qy	2281	CTCCTAGTTGAGACACACCTTAGAAGAGGTTTTTTGGGAGCTGAAATAAACTCAGTCACTG	2340
Db	2281	CTCCTAGTTGAGACACACCTTAGAAGAGGTTTTTTGGGAGCTGAAATAAACTCAGTCACTG	2340
Qy	2341	GTTTCCCATCTTAAGCCCTTAACTGCAGCTTCGTTTAAATGTAGCTCTTGATGGGAG	2400
Db	2341	GTTTCCCATCTCTAAGCCCTTAACTGCAGCTTCGTTTAAATGTAGCTCTTGATGGGAG	2400
Qy	2401	TTTCTAGGATGAACACTCCTCCATCGGATTTTGAAATATGACTTATTTGTAGGGGAAGA	2460
Db	2401	TTTCTAGGATGAACACTCCTCCATCGGATTTTGAAATATGACTTATTTGTAGGGGAAGA	2460
Qy	2461	GTCTGAGGGGCAACACACAAGAACAGGTCCCTCAGGCCACAGCACTGTCTTTTGTCT	2520
Db	2461	GTCTGAGGGGCAACACACAAGAACAGGTCCCTCAGGCCACAGCACTGTCTTTTGTCT	2520
Qy	2521	GATCCACCCCTCTTACCTTTTATCAGNATGGCTGTGTGGTCTCTCTGTGTGCCATCA	2580
Db	2521	GATCCACCCCTCTTACCTTTTATCAGNATGGCTGTGTGGTCTCTCTGTGTGCCATCA	2580
Qy	2581	CAGGACACAGGCATTTAAATATTTAACTATTATTTTAAACAAGTAGAAGGAATCCAT	2640
Db	2581	CAGGACACAGGCATTTAAATATTTAACTATTATTTTAAACAAGTAGAAGGAATCCAT	2640
Qy	2641	TGCTAGCTTTCTGTGTGGTGTCTAATAATTTTGGGTAGGCTGGGGATCCCCAACATCA	2700

1561	CCTGATGACAGACTTCTTCGCAGAGCCCTAAGCTGTGAGCTCCCTTCCTTAATGGACACAGT	1621
1621	GGGTGCTGGAGGAGTGGCTGTCTCCACACTTCCACCCGCGCTCTGCGGGGCTCTTGCCCTG	1680
1621	GGGTGCTGGAGGAGTGGCTGTCTCCACACTTCCACCCGCGCTCTGCGGGGCTCTTGCCCTG	1680
1681	TGATGTCTCCGTACGTGTGTGTGGGTGAGCCACCGAGCCAGGGTGTTCGGGGCCG	1740
1681	TGATGTCTCCGTACGTGTGTGTGGGTGAGCCACCGAGCCAGGGTGTTCGGGGCCG	1740
1741	GGGCATCTGCTGGACCTCCGCATCTTGGATAGTGCCCTTCTGCTGCCAGGTGGCCCC	1800
1741	GGGCATCTGCTGGACCTCCGCATCTTGGATAGTGCCCTTCTGCTGCCAGGTGGCCCC	1800
1801	ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTC	1860
1801	ATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTC	1860
1861	TGCGCAGGGCTGGGTCTGCTGCGCAATTTACTTTTGCTACACAGGTAGTATTTGACAAGAG	1920
1861	TGCGCAGGGCTGGGTCTGCTGCGCAATTTACTTTTGCTACACAGGTAGTATTTGACAAGAG	1920
1921	CGACTTGGCCAAATACTACAGGTAGAAAACTTCAGACACATTTGGGTGGAGGCTGTCCT	1980
1921	CGACTTGGCCAAATACTACAGGTAGAAAACTTCAGACACATTTGGGTGGAGGCTGTCCT	1980
1981	CACCTGGGTCCAGCTCCCGCTCTCTGTAGCCCCATGGGGCTGCGGGCTGGCGCGCAGT	2040
1981	CACCTGGGTCCAGCTCCCGCTCTCTGTAGCCCCATGGGGCTGCGGGCTGGCGCGCAGT	2040
2041	TTCTGTTTGTGCCAAAGTAATGTGGCTCTCTGTGCCACCCTGTGCTGTGAGGTGCGTA	2100
2041	TTCTGTTTGTGCCAAAGTAATGTGGCTCTCTGTGCCACCCTGTGCTGTGAGGTGCGTA	2100
2101	GCTGCAAGCTGGGGCTGGGGGCTCCCTCTCTCTCCCAAGTCTCTTAGGGCTGCTG	2160
2101	GCTGCAAGCTGGGGCTGGGGGCTCCCTCTCTCTCCCAAGTCTCTTAGGGCTGCTG	2160
2161	ACTGGAGGCTTCCAAGGGGTTTCAGCTGAGACTTATACAGAGGACCCAGAGGGCTCC	2220
2161	ACTGGAGGCTTCCAAGGGGTTTCAGCTGAGACTTATACAGAGGACCCAGAGGGCTCC	2220
2221	ATGCACCTGGAAATGCGGGACTCTGCAGGTGGAATTAACCCAGGCTCAGGGTTAAACAGCTAGC	2280
2221	ATGCACCTGGAAATGCGGGACTCTGCAGGTGGAATTAACCCAGGCTCAGGGTTAAACAGCTAGC	2280
2281	CTCCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGAGCTGTAATAAATCAGTCACTTG	2340
2281	CTCCTAGTTGAGACACACCTAGAGAAGGGTTTTTGGAGCTGTAATAAATCAGTCACTTG	2340
2341	GTTTCCCATCTTAAGCCCTTAACCTGACGCTTCGTTTAATGTAGCTCTTGTCATGGGAG	2400
2341	GTTTCCCATCTTAAGCCCTTAACCTGACGCTTCGTTTAATGTAGCTCTTGTCATGGGAG	2400
2401	TTTCTAGGATGAACACACTCTCTCATGGGATTTTGAACATATGAATTTTGTAGGGGAAGA	2460
2401	TTTCTAGGATGAACACACTCTCTCATGGGATTTTGAACATATGAATTTTGTAGGGGAAGA	2460
2461	GTCTGAGGGGCAACACACAAGAACCAAGTGCCCTCAGCCCAACAGCACTGCTCTTTTGCT	2520
2461	GTCTGAGGGGCAACACACAAGAACCAAGTGCCCTCAGCCCAACAGCACTGCTCTTTTGCT	2520
2521	GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTGCTCTCTGTTGGCATCA	2580
2521	GATCCACCCCTCTTACCTTTTATCAGGATGTGGCTGTGTGCTCTCTGTTGGCATCA	2580
2581	CAGAGACACAGGCATTTAAATATTTAACTTATTTAATAAAGTAGAGGGAATCCAT	2640
2581	CAGAGACACAGGCATTTAAATATTTAACTTATTTAATAAAGTAGAGGGAATCCAT	2640
2641	TGCTAGCTTTTCTGTGTGTGCTAATAATTTGGGTAGGGTGGGGATCCCCAACATCA	2700
2641	TGCTAGCTTTTCTGTGTGTGCTAATAATTTGGGTAGGGTGGGGATCCCCAACATCA	2700

Search completed: June 16, 2005, 02:01:57
Job time : 1926 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2005, 02:32:13 ; Search time 259.349 Seconds
(without alignments)
8466.892 Million cell updates/sec

Title: US-09-605-783A-110_COPY_598_1939

Perfect score: 1342

Sequence: 1 ggcggctgctgacgagggc.....gcgacttgccaaatactca 1342

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Issued Patents NA:*

- 1: /cgn2_6/ptodata/1/ina/5A COMB.seq:*
- 2: /cgn2_6/ptodata/1/ina/5B COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1342	100.0	3410	3	US-09-020-956-110
2	1342	100.0	3410	3	US-09-030-607-110
3	1342	100.0	3410	3	US-09-439-313-110
4	1342	100.0	3410	3	US-09-352-616A-110
5	1342	100.0	3410	3	US-09-602-877A-100
6	1342	100.0	3410	3	US-09-232-149A-110
7	1342	100.0	3410	4	US-09-159-812-110
8	1342	100.0	3410	4	US-09-636-215-110
9	1342	100.0	3410	4	US-09-685-166A-110
10	1342	100.0	3410	4	US-09-115-453-110
11	1342	100.0	3410	4	US-09-688-489-110
12	1342	100.0	3410	4	US-09-679-426-110
13	1342	100.0	3410	4	US-09-759-143-110
14	1342	100.0	3410	4	US-09-651-236-110
15	819	61.0	2904	4	US-09-636-215-703
16	819	61.0	2904	4	US-09-685-166A-703
17	819	61.0	2904	4	US-09-679-426-703
18	819	61.0	2904	4	US-09-759-143-703
19	819	61.0	2904	4	US-09-651-236-703
20	763	56.9	2152	3	US-09-071-710-16
21	763	56.9	2152	3	US-09-525-397-16
22	755	56.3	2143	3	US-09-071-710-15
23	755	56.3	2143	3	US-09-525-397-15
24	701.4	52.3	4034	4	US-09-685-166A-704
25	701.4	52.3	4034	4	US-09-636-215-704
26	701.4	52.3	4034	4	US-09-679-426-704
27	701.4	52.3	4034	4	US-09-759-143-704

Sequence 704, App
Sequence 702, App
Sequence 702, App
Sequence 702, App
Sequence 702, App
Sequence 702, App
Sequence 705, App
Sequence 705, App
Sequence 705, App
Sequence 705, App
Sequence 705, App
Sequence 705, App
Sequence 851, App
Sequence 851, App
Sequence 851, App
Sequence 851, App
Sequence 10, Appl
Sequence 10, Appl

ALIGNMENTS

RESULT 1

US-09-020-956-110
; Sequence 110, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillin, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-020-956-110

Query Match 100.0%; Score 1342; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGGCTGGCTAGCAGGGCTGTGTGTCGCCGATCCAGGCCCTGGAGCTGGACTGCT 60
|||||
Db 598 GGCGGGCTGGCTAGCAGGGCTGTGTGTCGCCGATCCAGGCCCTGGAGCTGGACTGCT 657

Qy 61 CATCTGGGCGTGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 120
Db |||||
Qy 658 CATCTGGGCGTGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 717
Db |||||
Qy 121 CCTGCTCTGACACTTTCCTGGGACCCGGACCACTGTGCGCAGGCTACTCTGTCTATGC 180
Db CCTGCTCTGACACTTTCCTGGGACCCGGACCACTGTGCGCAGGCTACTCTGTCTATGC 777
Qy 181 CTTTATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCCATTGACTGGGAC 240
Db CTTTATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCCATTGACTGGGAC 837
Qy 241 CAGTCCCTTGCCCTTACCTGGGACCCAGGAGGAGTCCCTTTTGGCCCTGCTCACCCCT 300
Db CAGTCCCTTGCCCTTACCTGGGACCCAGGAGGAGTCCCTTTTGGCCCTGCTCACCCCT 897
Qy 301 CATCTTCTCAGCTGCTAGAGCCACACTGCTGTGTGCTGAGGAGGAGCGCTGGGCCC 360
Db |||||
Qy 898 CATCTTCTCAGCTGCTAGAGCCACACTGCTGTGTGCTGAGGAGGAGCGCTGGGCCC 957
Db |||||
Qy 361 CACGAGCCAGCAGAGGCTGTGGGCCCCCTTGTGCGCCCACTGCTGCTCCATGCG 420
Db CACGAGCCAGCAGAGGCTGTGGGCCCCCTTGTGCGCCCACTGCTGCTCCATGCG 1017
Qy 421 GGCCCGCTTGGCTTTCGGAACTTGGGCGCCCTGCTTCCCGGCTGCACCACTGTGCTG 480
Db GGCCCGCTTGGCTTTCGGAACTTGGGCGCCCTGCTTCCCGGCTGCACCACTGTGCTG 1077
Qy 481 CCGATGCGCCGACCTTGGCGGCTCTTGTGTGCTGAGCTGTGCACTGGGCACT 540
Db CCGATGCGCCGACCTTGGCGGCTCTTGTGTGCTGAGCTGTGCACTGGGCACT 1137
Qy 541 CATGACCTTCAGCGTGTTCACAGATTCGTGGCGAGGGCTGTACCAAGGGGTGCC 600
Db CATGACCTTCAGCGTGTTCACAGATTCGTGGCGAGGGCTGTACCAAGGGGTGCC 1197
Qy 601 CAGACTGAGCGCGGACCGAGGCGCGGAGACACTATGATGAAGCGTTCGGATGGGCG 660
Db CAGACTGAGCGCGGACCGAGGCGCGGAGACACTATGATGAAGCGTTCGGATGGGCG 1257
Qy 661 CTTGGGCTGTCTGCAAGTGGCCACTCTCCCTGTGCTCTCTCTGTGTCATGACCGGCT 720
Db CTTGGGCTGTCTGCAAGTGGCCACTCTCCCTGTGCTCTCTCTGTGTCATGACCGGCT 1317
Qy 721 GGTGACGAGATTCCGCACTCGAGCAGTCTATTGSCAGTGTGGCAGCTTCCCTGTGGC 780
Db GGTGACGAGATTCCGCACTCGAGCAGTCTATTGSCAGTGTGGCAGCTTCCCTGTGGC 1377
Qy 781 TGCCGGTGCCACATGCTGTCCACAGTGTGGCCGTGTGACAGCTTCAGCGCGCCCTCAC 840
Db TGCCGGTGCCACATGCTGTCCACAGTGTGGCCGTGTGACAGCTTCAGCGCGCCCTCAC 1437
Qy 841 CGGTTTCACTTCTCAGCCCTGACAGTCTGCGCCCTACACACTGGGCTCCCTCTACCAACG 900
Db CGGTTTCACTTCTCAGCCCTGACAGTCTGCGCCCTACACACTGGGCTCCCTCTACCAACG 1497
Qy 901 GGAGAGCAGGTGTTCCTGCCCAATATCCGAGGGGACACTGGAGTGTAGCAGTGAGGA 960
Db GGAGAGCAGGTGTTCCTGCCCAATATCCGAGGGGACACTGGAGTGTAGCAGTGAGGA 1557
Qy 961 CAGCTGATGACCACTTTCCTGCCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTAATGACA 1020
Db CAGCTGATGACCACTTTCCTGCCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTAATGACA 1617
Qy 1021 CGTGGTCTGAGGACAGTGGCTCTCCACCTTCCACCGGCTCTCGGGGCGCTCTGC 1080
Db CGTGGTCTGAGGACAGTGGCTCTCCACCTTCCACCGGCTCTCGGGGCGCTCTGC 1677
Qy 1081 CTGTGATGTCCTCGTACGTGTGGTGGGTGAGCCACCGAGGCGAGGCTGTTCCGGG 1140
Db CTGTGATGTCCTCGTACGTGTGGTGGGTGAGCCACCGAGGCGAGGCTGTTCCGGG 1737

Qy 1141 CCGGGGCATCTGCTGGACCTCGCCATCTCTGTGATAGTGCCTTCTGTCTGCCAGGTGC 1200
Db CCGGGGCATCTGCTGGACCTCGCCATCTCTGTGATAGTGCCTTCTGTCTGCCAGGTGC 1797
Qy 1201 CCATCCCTGTTTATGGCTCCATTTGCCAGCTCAGCCAGTCTGTCACTGCTATATGGT 1260
Db CCATCCCTGTTTATGGCTCCATTTGCCAGCTCAGCCAGTCTGTCACTGCTATATGGT 1857
Qy 1261 GTCTGCCGAGCGCTGGGTCTGGTGGCATTACTTTGTACACAGGTAGTATTGACAA 1320
Db GTCTGCCGAGCGCTGGGTCTGGTGGCATTACTTTGTACACAGGTAGTATTGACAA 1917
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db GAGCGACTTGGCCAAATACTCA 1939

RESULT 2
US-09-030-607-110
; Sequence 110, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-110

Query Match 100.0%; Score 1342; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGGCTGCTAGCAGGGCTGTGTCGCCGATCCAGGCCCTTGAGCTGGCACTGCT 60
Db 598 GGCCGGCTGCTAGCAGGGCTGTGTCGCCGATCCAGGCCCTTGAGCTGGCACTGCT 657
Qy 61 CATCTGGGCGTGGGCTGCTGGAGCTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 120
Db 658 CATCTGGGCGTGGGCTGCTGGAGCTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 717
Qy 121 CTTGCTCTGACACTTTCCTGGGACCCGGACCACTGTGCGCAGGCTACTCTGTCTATGC 180

Db 718 CTTGCTCTGACCTCTTCGGGACCCGGACCACTGTGCGAGGCTACTCTGTCTATGC 777
Qy 181 CTTTCATGATCAGTCTTGGGGGCTGCTGGCTACTCTCTGCTGCGCAATTCAGCTGGGAC 240
Db 778 CTTTCATGATCAGTCTTGGGGGCTGCTGGCTACTCTCTGCTGCGCAATTCAGCTGGGAC 837
Qy 241 CAGTGCCCTGGCCCTTACCTTGGGACCCAGGAGGAGTCTCTTTGGCTGTCTCACCCCT 300
Db 838 CAGTGCCCTGGCCCTTACCTTGGGACCCAGGAGGAGTCTCTTTGGCTGTCTCACCCCT 897
Qy 301 CATCTTCTCCTCAGCTGCTAGCAGCACACTGCTGGCTGGCTGAGGAGCAGCGCTGGGCC 360
Db 898 CATCTTCTCCTCAGCTGCTAGCAGCACACTGCTGGCTGGCTGAGGAGCAGCGCTGGGCC 957
Qy 361 CACGAGCCAGCAGAGGCTGTGGGCCCTCTCTGTGCGCCCACTGCTGTCATGCG 420
Db 958 CACGAGCCAGCAGAGGCTGTGGGCCCTCTCTGTGCGCCCACTGCTGTCATGCG 1017
Qy 421 GGCCCGCTTGGCTTTCGGGAACCTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGCTG 480
Db 1018 GGCCCGCTTGGCTTTCGGGAACCTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGCTG 1077
Qy 481 CCAGATCCCGCAGCCTGCGCGGCTCTTCTGCTGGCTGAGCTGTGCACTGGCACT 540
Db 1078 CCAGATCCCGCAGCCTGCGCGGCTCTTCTGCTGGCTGAGCTGTGCACTGGCACT 1137
Qy 541 CATGACCTTCACGCTGTTTACAGGATTTGTTGGGCGAGGCTGTACAGGCGGTGCC 600
Db 1138 CATGACCTTCACGCTGTTTACAGGATTTGTTGGGCGAGGCTGTACAGGCGGTGCC 1197
Qy 601 CAGAGCTGAGCCGGGACCGAGGCGCGAGACACTATGATGAAGCGCTTCGATGGGCGAG 660
Db 1198 CAGAGCTGAGCCGGGACCGAGGCGCGAGACACTATGATGAAGCGCTTCGATGGGCGAG 1257
Qy 661 CTTGGGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGATGAGACCGGCT 720
Db 1258 CTTGGGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGCTGATGAGACCGGCT 1317
Qy 721 GTGTACAGGATTTGGGCTACTGAGAGTCTATTTGGGCGAGTGTGGCAGCTTTCCTGTGGC 780
Db 1318 GTGTACAGGATTTGGGCTACTGAGAGTCTATTTGGGCGAGTGTGGCAGCTTTCCTGTGGC 1377
Qy 781 TGGCGGTGCCACATGCTGCTCCACAGTGTGGCGTGGTGACAGCTTTCAGCGCGCTCAC 840
Db 1378 TGGCGGTGCCACATGCTGCTCCACAGTGTGGCGTGGTGACAGCTTTCAGCGCGCTCAC 1437
Qy 841 CGGGTTCACTTCTCAGCCCTGACAGATCTTGCCCTACACACTGGCCCTCTCTACACCG 900
Db 1438 CGGGTTCACTTCTCAGCCCTGACAGATCTTGCCCTACACACTGGCCCTCTCTACACCG 1497
Qy 901 GGAGAGCAGGTGTTCTGCGCCAAATACGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 960
Db 1498 GGAGAGCAGGTGTTCTGCGCCAAATACGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 1557
Qy 961 CAGCTGATGACAGCTTCTGCGCAGGCTTAAGCCTGGAGCTCCCTTCTCTAATGACA 1020
Db 1558 CAGCTGATGACAGCTTCTGCGCAGGCTTAAGCCTGGAGCTCCCTTCTCTAATGACA 1617
Qy 1021 CGTGGGTGCTGGAGGCACTGGCTGCTCCACCTTCCACCGCGCTCTGCGGGGCTCTGC 1080
Db 1618 CGTGGGTGCTGGAGGCACTGGCTGCTCCACCTTCCACCGCGCTCTGCGGGGCTCTGC 1677
Qy 1081 CTGTGATGCTCTCCGTAAGTGTGGTGGGTGAGCCCAACGAGGCCAGGGTGGTTCGGG 1140
Db 1678 CTGTGATGCTCTCCGTAAGTGTGGTGGGTGAGCCCAACGAGGCCAGGGTGGTTCGGG 1737
Qy 1141 CCGGGGATCTGCTGAGCCTCGCATCTCGATGAGTGCCTTCTGCTGTCCCAAGTGGC 1200
Db 1738 CCGGGGATCTGCTGAGCCTCGCATCTCGATGAGTGCCTTCTGCTGTCCCAAGTGGC 1797
Qy 1201 CCATCCCTGTGTTATGGGCTCCATTTGCCAGCTCAGCGAGTCTGTCTACTGCTATATGGT 1260

Db 1798 CCATCCCTGTGTTATGGGCTCCATTGTTCAGCTCAGCCAGTCTGTCTACTGCTATATGGT 1857
Qy 1261 GTCTGCGCAGGCTGGGTCTGTGCGCAATTTACTTTGCTACACAGGTAGTATTTGACAA 1320
Db 1858 GTCTGCGCAGGCTGGGTCTGTGCGCAATTTACTTTGCTACACAGGTAGTATTTGACAA 1917
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939
RESULT 3
US-09-439-313-110
; Sequence 110, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-439-313-110
Query Match 100.0%; Score 1342; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCGCGGCTGCTAGCAGGCTGTGTCGCGGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 598 GCGCGGCTGCTAGCAGGCTGTGTCGCGGATCCAGGCCCTGGAGCTGGCACTGCT 657
Qy 61 CATCTCTGGGCTGTGGGCTGTGGACTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 120
Db 658 CATCTCTGGGCTGTGGGCTGTGGACTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 717
Qy 121 CTTGCTCTGACCTCTTCCGGGACCCGGACCACTGTGCGCAGGCTACTGTCTATGC 180
Db 718 CTTGCTCTGACCTCTTCCGGGACCCGGACCACTGTGCGCAGGCTACTGTCTATGC 777
Qy 181 CTTTCATGATCAGTCTTGGGGGCTGCTGGCTACTCTCTGCTGCCATTGACTGGGACAC 240
Db 778 CTTTCATGATCAGTCTTGGGGGCTGCTGGCTACTCTCTGCTGCCATTGACTGGGACAC 837
Qy 241 CAGTGCCCTGGCCCTTACCTTGGGCAACCCAGGAGGAGTGTCTTTGGCTGTCTCACCCCT 300
Db 838 CAGTGCCCTGGCCCTTACCTTGGGCAACCCAGGAGGAGTGTCTTTGGCTGTCTCACCCCT 897
Qy 301 CATCTTCTCCTCAGCTGCTAGCAGCACACTGCTGGTGGCTGAGGAGCAGCGCTGGGCC 360
Db 898 CATCTTCTCCTCAGCTGCTAGCAGCACACTGCTGGTGGCTGAGGAGCAGCGCTGGGCC 957
Qy 361 CACGAGCCAGCAGAGGCTGTGGGCCCTCTCTGTGCGCCCACTGCTGTCCATGCGC 420
Db 958 CACGAGCCAGCAGAGGCTGTGGGCCCTCTCTGTGCGCCCACTGCTGTCCATGCGC 1017
Qy 421 GGCCCGCTTGGCTTTCGGGAACCTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGCTG 480


```
Db 1018 GGGCGCTGGCTTTCGGAACTGGGGCCCTGCTTCCCGGCTGCACAGCTGTGCTG 1077
Qy 481 CCGCATGCCCGCACCTCGCGCGCTTTCGTGGCTGAGCTGTGCAGCTGGAGCT 540
Db 1078 CCGATGCCCGCACCTCGCGCGCTTTCGTGGCTGAGCTGTGCAGCTGGAGCT 1137
Qy 541 CATGACCTTACAGCTGTTTACAGGATTTCTGGGCGAGGGCTGTACCAAGGCGTGCC 600
Db 1138 CATGACCTTACAGCTGTTTACAGGATTTCTGGGCGAGGGCTGTACCAAGGCGTGCC 1197
Qy 601 CAGAGCTGAGCGCGGACACCGAGGCGCGAGACATATGATGAAGCGTTCCGATGGGCG 660
Db 1198 CAGAGCTGAGCGCGGACACCGAGGCGCGAGACATATGATGAAGCGTTCCGATGGGCG 1257
Qy 661 CCTGGGCTGTTCTGAGTGGGCGCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCT 720
Db 1258 CCTGGGCTGTTCTGAGTGGGCGCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCT 1317
Qy 721 GGTGAGGATTTGGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
Db 1318 GGTGAGGATTTGGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377
Qy 781 TGGCGGTGCCACATGCTGTTCCACAGTGTGCCGTGGTGACAGCTTCAGCGCGCCCTCAC 840
Db 1378 TGGCGGTGCCACATGCTGTTCCACAGTGTGCCGTGGTGACAGCTTCAGCGCGCCCTCAC 1437
Qy 841 CGGTTACCTTCTCAGGCTTGCAGATCTTCCCTGCTTACACATGCGCTTCTTACCACCG 900
Db 1438 CGGTTACCTTCTCAGGCTTGCAGATCTTCCCTGCTTACACATGCGCTTCTTACCACCG 1497
Qy 901 GGAGAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGAGGTGTAGCAGTGAGGA 960
Db 1498 GGAGAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGAGGTGTAGCAGTGAGGA 1557
Qy 961 CAGCTGATGATACCAAGCTTCTGCGCAGGCGCTTAAGCTGGAGCTCCCTTCCCTAATGACA 1020
Db 1558 CAGCTGATGATACCAAGCTTCTGCGCAGGCGCTTAAGCTGGAGCTCCCTTCCCTAATGACA 1617
Qy 1021 CGTGGGTCTGGAGCAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1080
Db 1618 CGTGGGTCTGGAGCAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1677
Qy 1081 CTGTGATGTCTCCGTACGTGTGGTGGTGGTGAGCCACCGAGGCGAGGTGTTCCGGG 1140
Db 1678 CTGTGATGTCTCCGTACGTGTGGTGGTGGTGAGCCACCGAGGCGAGGTGTTCCGGG 1737
Qy 1141 CCGGGCATCTGCTGGACCTCGGCATCTGGATAGTGCCTTCTGTGTCCTCCAGGTGGC 1200
Db 1738 CCGGGCATCTGCTGGACCTCGGCATCTGGATAGTGCCTTCTGTGTCCTCCAGGTGGC 1797
Qy 1201 CCCATCCCTGTTATGGCTCCATGTTCCAGCTCAGCCAGTCTGTCACTGCTATATGGT 1260
Db 1798 CCCATCCCTGTTATGGCTCCATGTTCCAGCTCAGCCAGTCTGTCACTGCTATATGGT 1857
Qy 1261 GTCTGCCGAGCGCTGGGTCTGGTGGCCATTTACTTTGTACACAGGTAGTATTTGACAA 1320
Db 1858 GTCTGCCGAGCGCTGGGTCTGGTGGCCATTTACTTTGTACACAGGTAGTATTTGACAA 1917
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939
```

RESULT 4

```
US-09-352-616A-110
; Sequence 110, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
```

```
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352.616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110
```

```
Query Match 100.0%; Score 1342; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGCGGCTGGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 598 GGGCGGCTGGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTGGAGCTGGCACTGCT 657
Qy 61 CATCTCGGCGTGGGCTGTGTGACTTCTGTGGCCAGGTGTCTTCACTCCATGGAGGC 120
Db 658 CATCTCGGCGTGGGCTGTGTGACTTCTGTGGCCAGGTGTCTTCACTCCATGGAGGC 717
Qy 121 CTTGCTCTCTGACCTTTCGGGACCCGAGCCACTGTGCCAGGCCCTACTCTGTCTATGC 180
Db 718 CTTGCTCTCTGACCTTTCGGGACCCGAGCCACTGTGCCAGGCCCTACTCTGTCTATGC 777
Qy 181 CTTGATGATCAGTCTTTCGGGCTGCTGCTGGGCTACTCTCTGCTGCCATTTGATGGGAC 240
Db 778 CTTGATGATCAGTCTTTCGGGCTGCTGCTGGGCTACTCTCTGCTGCCATTTGATGGGAC 837
Qy 241 CAGTGGCTGGCGCTTTCCTGAGGACCCAGAGGAGGTGCTCTTTGGCTGTCTCACCCCT 300
Db 838 CAGTGGCTGGCGCTTTCCTGAGGACCCAGAGGAGGTGCTCTTTGGCTGTCTCACCCCT 897
Qy 301 CATCTTCTCCTACCTGCTAGCAGCCACACTGCTGGCTGAGGAGGCGAGCTGGGGCC 360
Db 898 CATCTTCTCCTACCTGCTAGCAGCCACACTGCTGGCTGAGGAGGCGAGCTGGGGCC 957
Qy 361 CACGAGCCAGCAGAGGGCTGTGCGGCCCTCTCTGTGCGCCCACTGCTGTCCATGCGC 420
Db 958 CACGAGCCAGCAGAGGGCTGTGCGGCCCTCTCTGTGCGCCCACTGCTGTCCATGCGC 1017
Qy 421 GGGCGCTTGGCTTTCGGAACTTGGGCGCGCTGCTTCCCGGCTGACACAGCTGTGCTG 480
Db 1018 GGGCGCTTGGCTTTCGGAACTTGGGCGCGCTGCTTCCCGGCTGACACAGCTGTGCTG 1077
Qy 481 CCGCATCCCGCCACCTGCGCGGCTTCTGCTGGCTGAGCTGTGCTGATGGGCACT 540
Db 1078 CCGCATCCCGCCACCTGCGCGGCTTCTGCTGGCTGAGCTGTGCTGATGGGCACT 1137
Qy 541 CATGACCTTACAGCTGTTTACAGGATTTCTGGGCGAGGGGCTGTACCAAGGCGTGCC 600
Db 1138 CATGACCTTACAGCTGTTTACAGGATTTCTGGGCGAGGGGCTGTACCAAGGCGTGCC 1197
Qy 601 CAGAGCTGAGCGGGCACCGAGGCCCGAGACACTATGATGAAGCGTTCCGATGGGCGAG 660
Db 1198 CAGAGCTGAGCGGGCACCGAGGCCCGAGACACTATGATGAAGCGTTCCGATGGGCGAG 1257
Qy 661 CTTGGGCTGTTCTGTCAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCT 720
Db 1258 CTTGGGCTGTTCTGTCAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCT 1317
Qy 721 GGTGAGCAGTATGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
Db 1318 GGTGAGCAGTATGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377
Qy 781 TGGCGGTGCCACATGCTGTTCCACAGTGTGGCGCTGTGACAGCTTCAGCGCGCCCTCAC 840
Db 1378 TGGCGGTGCCACATGCTGTTCCACAGTGTGGCGCTGTGACAGCTTCAGCGCGCCCTCAC 1437
```

```
Qy 841 CGGGTTACCTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCTCCCTCTACCAACG 900
Db 1438 CGGGTTACCTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCTCCCTCTACCAACG 1497
Qy 901 GGAGAGCAGGTGTTCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 960
Db 1498 GGAGAGCAGGTGTTCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 1557
Qy 961 CAGCCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACA 1020
Db 1558 CAGCCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACA 1617
Qy 1021 CGTGGGTGCTGGAGCAGTGGCTTCCCACTCCACCCCGCTCTGCGGGGCTCTGC 1080
Db 1618 CGTGGGTGCTGGAGCAGTGGCTTCCCACTCCACCCCGCTCTGCGGGGCTCTGC 1677
Qy 1081 CTGTGATGTCTCCCTAAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1140
Db 1678 CTGTGATGTCTCCCTAAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1737
Qy 1141 CCGGGGATCTGCTGGACCTCGCCATCCTGGATAGTGCCTTCTGCTGCTCCAGGTGGC 1200
Db 1738 CCGGGGATCTGCTGGACCTCGCCATCCTGGATAGTGCCTTCTGCTGCTCCAGGTGGC 1797
Qy 1201 CCCATCCCTGTTATGGGCTCCATTGTCTCCAGCTCAGCCAGTCTGCTCACTGCTATATGGT 1260
Db 1798 CCCATCCCTGTTATGGGCTCCATTGTCTCCAGCTCAGCCAGTCTGCTCACTGCTATATGGT 1857
Qy 1261 GTCTGCCGAGGCTGGGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1320
Db 1858 GTCTGCCGAGGCTGGGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1917
Qy 1321 GAGCGACTTGGCCAAATCTCA 1342
Db 1918 GAGCGACTTGGCCAAATCTCA 1939

RESULT 5
US-09-602-877A-100
; Sequence 100, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602.877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-602-877A-100

Query Match 100.0%; Score 1342; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGCGGTGGCTACGAGGCTGCTGTGCCGGATCCAGGCCCTTGAGCTGGGACCTGCT 60
Db 598 GGGCGGTGGCTACGAGGCTGCTGTGCCGGATCCAGGCCCTTGAGCTGGGACCTGCT 657
Qy 61 CATCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGCTTCACTCCACTGGAGGC 120
Db 658 CATCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGCTTCACTCCACTGGAGGC 717
Qy 121 CCTGCTCTGACCTTTCGGGGACCCGGGACCACTGTCCGAGGCCCTACTGCTCTATGC 180
```

```
Db 718 CTTGCTCTCTGACCTTTCGGGACCCGGACCACTGTGCCAGGCTACTCTGTCTATGC 777
Qy 181 CTTTCATGATCAGTCTTGGGGCTGGCTGGGCTACTCTCTGCTGCCATTGACTGGGACAC 240
Db 778 CTTTCATGATCAGTCTTGGGGCTGGCTGGGCTACTCTCTGCTGCCATTGACTGGGACAC 837
Qy 241 CAGTGGCTTGGCCCTTACCTTGGGACCCAGAGGAGTGGCTCTTTGGCCCTGCTCACCCCT 300
Db 838 CAGTGGCTTGGCCCTTACCTTGGGACCCAGAGGAGTGGCTCTTTGGCCCTGCTCACCCCT 897
Qy 301 CATCTTCTCTCCTGCTAGCAGCACACTGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 360
Db 898 CATCTTCTCTCCTGCTAGCAGCACACTGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 957
Qy 361 CACGAGCAGCAGAGAGGCTGTGGCCCTCTCTGCTGCTGCCCTGCTGCTGCTGCTGCTGCTG 420
Db 958 CACGAGCAGCAGAGAGGCTGTGGCCCTCTCTGCTGCTGCCCTGCTGCTGCTGCTGCTGCTG 1017
Qy 421 GGGCCGCTTGGCTTTCGGGAACCTTGGGCGCCCTGCTTCCCGGCTGCACCACTGTGTGCTG 480
Db 1018 GGGCCGCTTGGCTTTCGGGAACCTTGGGCGCCCTGCTTCCCGGCTGCACCACTGTGTGCTG 1077
Qy 481 CCGGATGCCCCCGACCTGCGCCGCTCTTCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 540
Db 1078 CCGGATGCCCCCGACCTGCGCCGCTCTTCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1137
Qy 541 CATGACCTTACCGCTGTTTACACGAGTTCGTGGGCGAGGGCTGTACCAAGGCGCTGCC 600
Db 1138 CATGACCTTACCGCTGTTTACACGAGTTCGTGGGCGAGGGCTGTACCAAGGCGCTGCC 1197
Qy 601 CAGAGCTGAGCCCGGACCCCGAGGCTGATGATGAAGGCGCTTCGGATGGGCGAG 660
Db 1198 CAGAGCTGAGCCCGGACCCCGAGGCTGATGATGAAGGCGCTTCGGATGGGCGAG 1257
Qy 661 CTTGGGGCTGTTCTGTCAGTGGCGCATCTCCCTGGTCTTCTCTGTGTGATGAGACCGGCT 720
Db 1258 CTTGGGGCTGTTCTGTCAGTGGCGCATCTCCCTGGTCTTCTCTGTGTGATGAGACCGGCT 1317
Qy 721 GGTGACGAGTTCGGGCTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
Db 1318 GGTGACGAGTTCGGGCTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377
Qy 781 TGGCGGTGCCACATGCTGCTGCCACAGTGTGGCGCTGGTGACAGCTTCAGCGCGCCCTCAC 840
Db 1378 TGGCGGTGCCACATGCTGCTGCCACAGTGTGGCGCTGGTGACAGCTTCAGCGCGCCCTCAC 1437
Qy 841 CGGGTTCACCTTCTCAGCCCTGAGATCTGCGCCCTACACACTGGCCTCCCTCTACCAACG 900
Db 1438 CGGGTTCACCTTCTCAGCCCTGAGATCTGCGCCCTACACACTGGCCTCCCTCTACCAACG 1497
Qy 901 GGAGAGCAGGTGTTCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 960
Db 1498 GGAGAGCAGGTGTTCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 1557
Qy 961 CAGCCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACA 1020
Db 1558 CAGCCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACA 1617
Qy 1021 CGTGGGTGCTGGAGCAGTGGCTTCCCACTCCACCCCGCTCTGCGGGGCTCTGC 1080
Db 1618 CGTGGGTGCTGGAGCAGTGGCTTCCCACTCCACCCCGCTCTGCGGGGCTCTGC 1677
Qy 1081 CTGTGATGTCTCCCTAAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1140
Db 1678 CTGTGATGTCTCCCTAAGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1737
Qy 1141 CCGGGGATCTGCTGGACCTCGCCATCCTGGATAGTGCCTTCTGCTGCTCCAGGTGGC 1200
Db 1738 CCGGGGATCTGCTGGACCTCGCCATCCTGGATAGTGCCTTCTGCTGCTCCAGGTGGC 1797
Qy 1201 CCCATCCCTGTTATGGGCTCCATTGTCTCCAGCTCAGCCAGTCTGCTCACTGCTATATGGT 1260
Db 1798 CCCATCCCTGTTATGGGCTCCATTGTCTCCAGCTCAGCCAGTCTGCTCACTGCTATATGGT 1857
```

QY 1261 GTCTCCGAGGCTGGGCTGCTGGTCCGCAATTTACTTTGCTACACAGGTAGTATTGACAA 1320
 Db 1858 GTCTCCGAGGCTGGGCTGCTGGTCCGCAATTTACTTTGCTACACAGGTAGTATTGACAA 1917
 QY 1321 GAGCGACTTGGCCAAATACTCA 1342
 Db 1918 GAGCGACTTGGCCAAATACTCA 1939

RESULT 6

US-09-232-149A-110
 ; Sequence 110, Application US/09232149A
 ; Patent No. 6465611
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer Lynn
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
 ; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
 ; FILE REFERENCE: 210121.427C6
 ; CURRENT APPLICATION NUMBER: US/09/232,149A
 ; CURRENT FILING DATE: 1999-01-15
 ; NUMBER OF SEQ ID NOS: 338
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 110
 ; LENGTH: 3410
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 ; US-09-232-149A-110

Query Match 100.0%; Score 1342; DB 3; Length 3410;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCCTGGCTAGCAGGGCTGCTGTGCCGATCCAGGCCCTGGAGCTGGCACTGCT 60
 Db 598 GGCCTGGCTAGCAGGGCTGCTGTGCCGATCCAGGCCCTGGAGCTGGCACTGCT 657
 QY 61 CATCTGGGCTGGGCTGCTGGACTCTGTGGCCAGGTGCTTCACTCCACTGGAGGC 120
 Db 658 CATCTGGGCTGGGCTGCTGGACTCTGTGGCCAGGTGCTTCACTCCACTGGAGGC 717
 QY 121 CTGCTCTGACTCTTCCGGGACCCGAGACCACTGTGCCAGGCTACTCTGTCTATGC 180
 Db 718 CTGCTCTGACTCTTCCGGGACCCGAGACCACTGTGCCAGGCTACTCTGTCTATGC 777
 QY 181 CTTCAATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGATGAGAC 240
 Db 778 CTTCAATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGATGAGAC 837
 QY 241 CAGTGCCCTGGCCCTACTCTGGGACCCAGGAGAGTCCCTTTGGCCCTGCTCACCCCT 300
 Db 838 CAGTGCCCTGGCCCTACTCTGGGACCCAGGAGAGTCCCTTTGGCCCTGCTCACCCCT 897
 QY 301 CATCTTCTCCTGCTAGCAGCACAACACTGTGTGGTGGCTGAGGAGCAGCGCTGGGCC 360
 Db 898 CATCTTCTCCTGCTAGCAGCACAACACTGTGTGGTGGCTGAGGAGCAGCGCTGGGCC 957
 QY 361 CACGAGCCAGAGAGGCTGTGGGCCCTCTCTGTGTGGCCCACTGCTGTCAATGCG 420
 Db 958 CACGAGCCAGAGAGGCTGTGGGCCCTCTCTGTGTGGCCCACTGCTGTCAATGCG 1017
 QY 421 GGCCGCTTGGCTTCCGGAACCTGGGCGCCCTGCTCCCGGCTGACACAGCTGTGCTG 480
 Db 1018 GGCCGCTTGGCTTCCGGAACCTGGGCGCCCTGCTCCCGGCTGACACAGCTGTGCTG 1077
 QY 481 CCGCATGCCCGCACCTCTGGCGGCTCTTGTGGCTGAGCTGTGCACTGGATGGCACT 540
 Db 1078 CCGCATGCCCGCACCTCTGGCGGCTCTTGTGGCTGAGCTGTGCACTGGATGGCACT 1137
 QY 541 CATGACCTTACGCTGTTTACACGGATTTCTGTGGCGAGGGCTGTACACAGGGGTGCC 600

Db 1138 CATGACCTTACGCTGTTTACACGGATTTCTGTGGCGAGGGCTGTACACAGGGGTGCC 1197
 QY 601 CAGAGCTGAGCCGGGACCCGAGGGCCGAGACACTATGATGAAGCGTTCGATGGGAG 660
 Db 1198 CAGAGCTGAGCCGGGACCCGAGGGCCGAGACACTATGATGAAGCGTTCGATGGGAG 1257
 QY 661 CCTGGGGCTGTTCTCTGAGTGGCCATCTCCCTGGTCTTCTCTCTGCTGATGAGACCGGCT 720
 Db 1258 CCTGGGGCTGTTCTCTGAGTGGCCATCTCCCTGGTCTTCTCTCTGCTGATGAGACCGGCT 1317
 QY 721 GGTGACGGATTCGGCACTGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
 Db 1318 GGTGACGGATTCGGCACTGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377
 QY 781 TGCCGGTGCCACATGCTGTCGCCAGTGTGGCGTGTGACAGCTTCAGCGCCCTCAC 840
 Db 1378 TGCCGGTGCCACATGCTGTCGCCAGTGTGGCGTGTGACAGCTTCAGCGCCCTCAC 1437
 QY 841 CGGGTTCACTTCTCAGCCCTGAGATCTGCTCCCTACACACTGGCCCTCCCTTACACCG 900
 Db 1438 CGGGTTCACTTCTCAGCCCTGAGATCTGCTCCCTACACACTGGCCCTCCCTTACACCG 1497
 QY 901 GGAGAAGCAGGTGTTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 960
 Db 1498 GGAGAAGCAGGTGTTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 1557
 QY 961 CAGCTGATGACACAGCTTCTGTCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGACA 1020
 Db 1558 CAGCTGATGACACAGCTTCTGTCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGACA 1617
 QY 1021 CGTGGGTGCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1080
 Db 1618 CGTGGGTGCTGGAGGAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1677
 QY 1081 CTGTGATGCTCCGTAGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1140
 Db 1678 CTGTGATGCTCCGTAGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1737
 QY 1141 CCGGGGATCTGCTGGACCTCGCATCTGGATAGTGGCTTCTGCTGCTCCAGGTGGC 1200
 Db 1738 CCGGGGATCTGCTGGACCTCGCATCTGGATAGTGGCTTCTGCTGCTCCAGGTGGC 1797
 QY 1201 CCCATCCCTGTTATGGGCTCCATTGTGCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
 Db 1798 CCCATCCCTGTTATGGGCTCCATTGTGCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1857
 QY 1261 GTCTGCGCAGGCTGGTCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAA 1320
 Db 1858 GTCTGCGCAGGCTGGTCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAA 1917
 QY 1321 GAGCGACTTGGCCAAATACTCA 1342
 Db 1918 GAGCGACTTGGCCAAATACTCA 1939

RESULT 7

US-09-159-812-110
 ; Sequence 110, Application US/09159812A
 ; Patent No. 6613872
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF
 ; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
 ; FILE REFERENCE: 210121.428C5
 ; CURRENT APPLICATION NUMBER: US/09/159,812A
 ; CURRENT FILING DATE: 1998-09-23
 ; NUMBER OF SEQ ID NOS: 306
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 110
 ; LENGTH: 3410
 ; TYPE: DNA
 ; ORGANISM: Homo sapien

US-09-159-812-110

```
Query Match      100.0%; Score 1342; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGCTGGCTAGCAGGGCTGCTGTGCCCCGATCCAGGCCCTCGAGCTGGCACTGCT 60
Db GCGCGCTGGCTAGCAGGGCTGCTGTGCCCCGATCCAGGCCCTCGAGCTGGCACTGCT 657

Qy 61 CATCTGGGCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCACTGGAGGC 120
Db CATCTGGGCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCACTGGAGGC 717

Qy 121 CTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180
Db CTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 777

Qy 181 CTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 240
Db CTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 837

Qy 241 CAGTGCCCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 300
Db CAGTGCCCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 897

Qy 301 CATCTTCCTCACCTGCTAGCAGCCACACTGCTGTGGCTGAGGAGGCGCTGGGCCC 360
Db CATCTTCCTCACCTGCTAGCAGCCACACTGCTGTGGCTGAGGAGGCGCTGGGCCC 957

Qy 361 CACCGAGCCAGCAGAGGGCTGTGGGCCCCCTCTTGTGGCCCCCACTGCTGTCCATGCGG 420
Db CACCGAGCCAGCAGAGGGCTGTGGGCCCCCTCTTGTGGCCCCCACTGCTGTCCATGCGG 1017

Qy 421 GCGCGCTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGCGCTGACACAGCTGTGCTG 480
Db GCGCGCTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGCGCTGACACAGCTGTGCTG 1077

Qy 481 CCGCATGCCCCGACCCCTGCGCGCGCTCTTGTGGCTGAGCTGTGAGCTGGAGTGGCACT 540
Db CCGCATGCCCCGACCCCTGCGCGCGCTCTTGTGGCTGAGCTGTGAGCTGGAGTGGCACT 1137

Qy 541 CATGACCTTACGCTGTTTACAGGATTTCTGTGGCGAGGGGCTGTACACAGGCGCTGCC 600
Db CATGACCTTACGCTGTTTACAGGATTTCTGTGGCGAGGGGCTGTACACAGGCGCTGCC 1197

Qy 601 CAGAGCTGAGCGCGGACCGAGCCCGGAGACACTATGATGAAGCGTTCCGATGGGCGAG 660
Db CAGAGCTGAGCGCGGACCGAGCCCGGAGACACTATGATGAAGCGTTCCGATGGGCGAG 1257

Qy 661 CCTGGGCTGTTCTGCACTGCGGCTCTCCCTGCTTCTCTCTGCTGATGAGACCGGCT 720
Db CCTGGGCTGTTCTGCACTGCGGCTCTCCCTGCTTCTCTCTGCTGATGAGACCGGCT 1317

Qy 721 GGTGAGCGATTCGCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
Db GGTGAGCGATTCGCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377

Qy 781 TGCCGGTGCCACATGCTGTTCCCAAGTGTGGCGCTGGTGACAGCTTCAGCGCCCTCAC 840
Db TGCCGGTGCCACATGCTGTTCCCAAGTGTGGCGCTGGTGACAGCTTCAGCGCCCTCAC 1437

Qy 841 CCGGTTACCTTCTCAGCGCTGAGATCTGCGCTTACACTGCGCTCCCTCTACCAACG 900
Db CCGGTTACCTTCTCAGCGCTGAGATCTGCGCTTACACTGCGCTCCCTCTACCAACG 1497

Qy 901 GGAGAAGCAGGTGTTCTGCGCCCAATACCGAGGGGACACTGAGGTGTAGCAGTGAGGA 960
Db GGAGAAGCAGGTGTTCTGCGCCCAATACCGAGGGGACACTGAGGTGTAGCAGTGAGGA 1557

Qy 961 CAGCTGATACAGCTTCTGCCAGGCCCTTAAGCTGGAGCTCCCTTCCCTAATGAGCA 1020
Db CAGCTGATACAGCTTCTGCCAGGCCCTTAAGCTGGAGCTCCCTTCCCTAATGAGCA 1617
```

```
Qy 1021 CGTGGTGTGGAGGAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCG 1080
Db 1618 CGTGGTGTGGAGGAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCG 1677

Qy 1081 CTGTGATGTCTCCCTACGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 1140
Db 1678 CTGTGATGTCTCCCTACGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 1737

Qy 1141 CCGGGGATCTGCGTGGACCTCGCCATCTCTGATAGTGTGCTTCTGCTGTCTCCAGGTGGC 1200
Db 1738 CCGGGGATCTGCGTGGACCTCGCCATCTCTGATAGTGTGCTTCTGCTGTCTCCAGGTGGC 1797

Qy 1201 CCCATCCCTGTTTATGGCTCCATTTGTCAGCTCAGCCAGTCTGTCTGCTATATGCT 1260
Db 1798 CCCATCCCTGTTTATGGCTCCATTTGTCAGCTCAGCCAGTCTGTCTGCTATATGCT 1857

Qy 1261 GTCTGCGCAGGCTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 1320
Db 1858 GTCTGCGCAGGCTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 1917

Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939
```

```
RESULT 8
US-09-636-215-110
; Sequence 110, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-636-215-110
```

```
Query Match      100.0%; Score 1342; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGCTGGCTAGCAGGGCTGCTGTGCCCCGATCCAGGCCCTCGAGCTGGCACTGCT 60
Db 598 GCGCGCTGGCTAGCAGGGCTGCTGTGCCCCGATCCAGGCCCTCGAGCTGGCACTGCT 657

Qy 61 CATCTGGGCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGTGCTTCACTCACTGGAGGC 120
Db 658 CATCTGGGCTGGGCTGGGCTGCTGGACTTCTGTGGCCAGGTGTGCTTCACTCACTGGAGGC 717
```



```
Db      898  CATCTTCTCACCTGCGTAGCAGCCACACTGCTGTGGCTGAGGAGCAGCGCTGGGCC 957
Qy      361  CACGAGCCAGCAGAGGGCTGTGGCCCTCTTGTGCGCCCACTGCTGTCATGCGC 420
Db      958  CACGAGCCAGCAGAGGGCTGTGGCCCTCTTGTGCGCCCACTGCTGTCATGCGC 1017
Qy      421  GCGCCGCTTGGCTTTCCGGAACCTCGGGCGCCCTGCTTCCCGGGCTGCACCACTGCTG 480
Db      1018  GCGCCGCTTGGCTTTCCGGAACCTCGGGCGCCCTGCTTCCCGGGCTGCACCACTGCTG 1077
Qy      481  CCGATGCCCGCAGCCCTGCGCGGCTTCTGTGGCTGAGCTGTGAGCTGTGATGG 540
Db      1078  CCGATGCCCGCAGCCCTGCGCGGCTTCTGTGGCTGAGCTGTGAGCTGTGATGG 1137
Qy      541  CATGACCTTCACTGCTGTTTACAGGATTTCTGTGGCGAGGGCTGTACAGGGCGTGCC 600
Db      1138  CATGACCTTCACTGCTGTTTACAGGATTTCTGTGGCGAGGGCTGTACAGGGCGTGCC 1197
Qy      601  CAGAGCTGAGCGGGCCACCGAGGCCCGGAGACACTATGATGAAGCGCTTCGGATGGG 660
Db      1198  CAGAGCTGAGCGGGCCACCGAGGCCCGGAGACACTATGATGAAGCGCTTCGGATGGG 1257
Qy      661  CCTGGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGAGACCG 720
Db      1258  CCTGGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGAGACCG 1317
Qy      721  GGTGACGGATTCGGCACTCGAGCAGTCTATTGTGGCCAGTGTGGCAGCTTTCCTGTGG 780
Db      1318  GGTGACGGATTCGGCACTCGAGCAGTCTATTGTGGCCAGTGTGGCAGCTTTCCTGTGG 1377
Qy      781  TGGCGGTGCCACATGCTCCAGTGTGGCGTGGTGACAGCTTCAGCGCGCCCTCAC 840
Db      1378  TGGCGGTGCCACATGCTCCAGTGTGGCGTGGTGACAGCTTCAGCGCGCCCTCAC 1437
Qy      841  CGGTTTACCTTCTCAGCCCTGAGATCTGCTCCCTTACACATGTGGCTCCCTTACCA 900
Db      1438  CGGTTTACCTTCTCAGCCCTGAGATCTGCTCCCTTACACATGTGGCTCCCTTACCA 1497
Qy      901  GGAGACGAGTGTCTGCGCCCAATACCGAGGGGACACTGGAGGTGTACAGTGGGA 960
Db      1498  GGAGACGAGTGTCTGCGCCCAATACCGAGGGGACACTGGAGGTGTACAGTGGGA 1557
Qy      961  CAGCTGATGATCAGCTTCTCGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTAATG 1020
Db      1558  CAGCTGATGATCAGCTTCTCGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTAATG 1617
Qy      1021  CGTGGGTGCTGGAGCAGTGGCTGTCTCCACCTCCAGCCGCTCTGCGGGGCTCTGC 1080
Db      1618  CGTGGGTGCTGGAGCAGTGGCTGTCTCCACCTCCAGCCGCTCTGCGGGGCTCTGC 1677
Qy      1081  CTGTGATGCTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGTCCGGG 1140
Db      1678  CTGTGATGCTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGTCCGGG 1737
Qy      1141  CCGGGCATCTGCTTGAACCTCGCATCTCGATAGTGCCTTCTGCTGTCCAGGTGGC 1200
Db      1738  CCGGGCATCTGCTTGAACCTCGCATCTCGATAGTGCCTTCTGCTGTCCAGGTGGC 1797
Qy      1201  CCCATCCCTGTTATGGGCTCAATGTCCAGCTCAGCCAGTCTGTCACTGCTATATGG 1260
Db      1798  CCCATCCCTGTTATGGGCTCAATGTCCAGCTCAGCCAGTCTGTCACTGCTATATGG 1857
Qy      1261  GTCTGCCCGAGGCTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1320
Db      1858  GTCTGCCCGAGGCTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1917
Qy      1321  GAGCGACTTGGCCAAATACTCA 1342
Db      1918  GAGCGACTTGGCCAAATACTCA 1939
```

RESULT 10

US-09-115-453-110

```
; Sequence 110, Application US/09115453B
; Patent No. 6657056
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-115-453-110
```

```
Query Match 100.0%; Score 1342; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  GCGCGCTGCTAGCAGGGCTGTGTCGCCGATFCCAGGCCCTCGAGCTGGCACTGCT 60
Db      598  GCGCGCTGCTAGCAGGGCTGTGTCGCCGATFCCAGGCCCTCGAGCTGGCACTGCT 657
Qy      61  CATCTGGGGCTGGGGCTGTGGACTTCTGTGGCCAGGTGTCTCACTCCACTGGAGGC 120
Db      658  CATCTGGGGCTGGGGCTGTGGACTTCTGTGGCCAGGTGTCTCACTCCACTGGAGGC 717
Qy      121  CTTGCTCTCTGACTCTTCCGGGACCCGGACCACTGCGCAGGCCCTACTCTGTCTATGC 180
Db      718  CTTGCTCTCTGACTCTTCCGGGACCCGGACCACTGCGCAGGCCCTACTCTGTCTATGC 777
Qy      181  CTTTCATGATCAGTCTTGGGGCTGCTGGGCTACCTCTCTGCTGCCATFAGCTGGGA 240
Db      778  CTTTCATGATCAGTCTTGGGGCTGCTGGGCTACCTCTCTGCTGCCATFAGCTGGGA 837
Qy      241  CAGTGGCTTGGCCCTTACCTGGGACCCAGGAGGAGTGTCTTTCGCCCTGTCCACCT 300
Db      838  CAGTGGCTTGGCCCTTACCTGGGACCCAGGAGGAGTGTCTTTCGCCCTGTCCACCT 897
Qy      301  CATCTTCTCTCACCTGCTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGCGCTGGG 360
Db      898  CATCTTCTCTCACCTGCTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGCGCTGGG 957
Qy      361  CACGAGCCAGCAGAGGGCTGTGCGCCCTCTCTTGTGCGCCCACTGTCTGTCCATG 420
Db      958  CACGAGCCAGCAGAGGGCTGTGCGCCCTCTCTTGTGCGCCCACTGTCTGTCCATG 1017
Qy      421  GCGCCGCTTGGCTTTCGGGAACCTTGGGCGCCCTGCTTCCCGGCTGCACAGCTGT 480
Db      1018  GCGCCGCTTGGCTTTCGGGAACCTTGGGCGCCCTGCTTCCCGGCTGCACAGCTGT 1077
Qy      481  CCGCATGCCCGCAGCCCTGCGCGGCTTCTGTGGCTGAGCTGTGAGCTGGATGGCA 540
Db      1078  CCGCATGCCCGCAGCCCTGCGCGGCTTCTGTGGCTGAGCTGTGAGCTGGATGGCA 1137
Qy      541  CATGACCTTCACTGCTGTTTACAGGATTTCTGTGGCGAGGGCTGTACAGGGCGTG 600
Db      1138  CATGACCTTCACTGCTGTTTACAGGATTTCTGTGGCGAGGGCTGTACAGGGCGTG 1197
Qy      601  CAGAGCTGAGCGGGCCACCGAGGCCCGGAGACACTATGATGAAGCGCTTCGGATGG 660
Db      1198  CAGAGCTGAGCGGGCCACCGAGGCCCGGAGACACTATGATGAAGCGCTTCGGATGG 1257
Qy      661  CCTGGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGAGACCG 720
Db      1258  CCTGGGCTGTCTCTGAGTGGCGCATCTCCCTGGTCTTCTCTGTGTCATGAGACCG 1317
Qy      721  GGTGACGGATTCGGCACTCGAGCAGTCTATTGTGGCCAGTGTGGCAGCTTTCCTGT 780
Db      1318  GGTGACGGATTCGGCACTCGAGCAGTCTATTGTGGCCAGTGTGGCAGCTTTCCTGT 1377
```

Qy	781	TGCCGGTGCCACATGCTGTCTCCACAGTGTGGCCGTGGTGACAGCTTTCAGCGCGCCTCAC	840
Db	1378	TGCCGGTGCCACATGCTGTCTCCACAGTGTGGCCGTGGTGACAGCTTTCAGCGCGCCTCAC	1437
Qy	841	CGGGTTACCTTCTCAGCGCTGCGAGATCTCGCCCTACACACTGGCCCTCCCTTACCAACG	900
Db	1438	CGGGTTACCTTCTCAGCGCTGCGAGATCTCGCCCTACACACTGGCCCTCCCTTACCAACG	1497
Qy	901	GGAGAACGAGGTGTTCTGTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGA	960
Db	1498	GGAGAACGAGGTGTTCTGTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGA	1557
Qy	961	CAGCCTGATGACACAGTCTCTGTCAGAGCCCTTAAGCCTGGAGCTCCCTTCCTTAATGAGACA	1020
Db	1558	CAGCCTGATGACACAGTCTCTGTCAGAGCCCTTAAGCCTGGAGCTCCCTTCCTTAATGAGACA	1617
Qy	1021	CGTGGGTGCTGGAGGCAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCG	1080
Db	1618	CGTGGGTGCTGGAGGCAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCG	1677
Qy	1081	CTGTGATGTCCTCCGTAGCTGTGTGTGTGGTGAGCCCAACGAGGCCAAGGGTGTGTTCCGGG	1140
Db	1678	CTGTGATGTCCTCCGTAGCTGTGTGTGTGGTGAGCCCAACGAGGCCAAGGGTGTGTTCCGGG	1737
Qy	1141	CCGGGGGATCTGCTCGACCTCGCCATCTCGGATAGTGCCTTCTGCTGTGCCAGGTGGC	1200
Db	1738	CCGGGGGATCTGCTCGACCTCGCCATCTCGGATAGTGCCTTCTGCTGTGCCAGGTGGC	1797
Qy	1201	CCCATCCCTGTTATGGGCTCCATTGTGCCAGCTCAGCCAGTCTGTCACTGCCTATATGGT	1260
Db	1798	CCCATCCCTGTTATGGGCTCCATTGTGCCAGCTCAGCCAGTCTGTCACTGCCTATATGGT	1857
Qy	1261	GTCTGCCCGCAGGCTGGGTCTGGTCGCCATTTACTTTTGCTACACAGGTAGTATTTGACAA	1320
Db	1858	GTCTGCCCGCAGGCTGGGTCTGGTCGCCATTTACTTTTGCTACACAGGTAGTATTTGACAA	1917
Qy	1321	GAGCGACTTGGCCAAATACTCA	1342
Db	1918	GAGCGACTTGGCCAAATACTCA	1939

```

RESULT 11
US-09-688-489-110
; Sequence 110, Application US/09688489
; Patent No. 6664377
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 21021.427D2
; CURRENT APPLICATION NUMBER: US/09/688,489
; CURRENT FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-688-489-110

```

Db	658	CATCCTGGGCGTGGGGCTGTCTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGC	7117
Qy	121	CTGTCTCTCTGACCTCTTCCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATGC	180
Db	718	CTGTCTCTTGACCTCTTCCGGGACCCGGACCACTGTGCGCAGGCCCTACTCTGTCTATGC	777
Qy	181	CTTTCATGATCAGTCTTTGGGGGCTGCCTTGGGCTACCTTCCCTGCTGCCATTTGACATGGGACAC	240
Db	778	CTTTCATGATCAGTCTTTGGGGGCTGCCTTGGGCTACCTTCCCTGCTGCCATTTGACATGGGACAC	837
Qy	241	CAGTGCCTTGCCCCCTTACCTTGGCGCACCCAGGAGGAGTGCCTCTTTTGGCCCTGTCAACCCCT	300
Db	838	CAGTGCCTTGCCCCCTTACCTTGGCGCACCCAGGAGGAGTGCCTCTTTTGGCCCTGTCAACCCCT	897
Qy	301	CATCTTCTCTCACTGTGGTAGACGCCACACTGTCTGTGTGGTGTAGGAGGCGAGCGTGGGCC	360
Db	898	CATCTTCTCTCACTGTGGTAGACGCCACACTGTCTGTGTGGTGTAGGAGGCGAGCGTGGGCC	957
Qy	361	CACCGAGCAGCAGAGGGGCTGTGCGCCCCCTCTTGTGCGCCCCACTGTCTGTCCATGCGG	420
Db	958	CACCGAGCAGCAGAGGGGCTGTGCGCCCCCTCTTGTGCGCCCCACTGTCTGTCCATGCGG	1017
Qy	421	GGCCCGCTTGGCTTTTCCGGAACTTGGGCGCCCTGTCTTCCC CGCTGCACAGCTGTGCTG	480
Db	1018	GGCCCGCTTGGCTTTTCCGGAACTTGGGCGCCCTGTCTTCCC CGCTGCACAGCTGTGCTG	1077
Qy	481	CCGCATGCCCGGCACCCCTGCGCGGCTCTTCTGTGGCTGAGCTGTGCACTGGATGGCACT	540
Db	1078	CCGCATGCCCGGCACCCCTGCGCGGCTCTTCTGTGGCTGAGCTGTGCACTGGATGGCACT	1137
Qy	541	CATGACCTTTCACGCTGTTTTACACGGATTTCTGTGGCGAGGGGCTGTATCACAGGCGCTGCC	600
Db	1138	CATGACCTTTCACGCTGTTTTACACGGATTTCTGTGGCGAGGGGCTGTATCACAGGCGCTGCC	1197
Qy	601	CAGAGCTGAGCCGGGACCCGAGCGCCGGAGACACTATATGATGAAGGCGTTTCGGATGGGCGAG	660
Db	1198	CAGAGCTGAGCCGGGACCCGAGCGCCGGAGACACTATGATGAAGGCGTTTCGGATGGGCGAG	1257
Qy	661	CTTGGGCTGTCTCTGCAGTGCSCCACTCCCTGGTCTTCTCTCTGCTCATGACACCGGCT	720
Db	1258	CTTGGGCTGTCTCTGCAGTGCSCCACTCCCTGGTCTTCTCTCTGCTCATGACACCGGCT	1317
Qy	721	GGTGCAGCGATTCGGCACTCGACAGTCTATTTGGCCAGTGTGGCAGCTTTTCCCTGTGGC	780
Db	1318	GGTGCAGCGATTCGGCACTCGACAGTCTATTTGGCCAGTGTGGCAGCTTTTCCCTGTGGC	1377
Qy	781	TGCCGTGCCACATGCTGTGCCAATACCGAGGGGACACTGGAGGTTCTAGCAGTGAAGGA	840
Db	1378	TGCCGTGCCACATGCTGTGCCAATACCGAGGGGACACTGGAGGTTCTAGCAGTGAAGGA	1437
Qy	841	CGGGTTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACCAACCG	900
Db	1438	CGGGTTTCACTTCTCAGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACCAACCG	1497
Qy	901	GGAGAGCAGGTGTTCTTGCCCAAATACCGAGGGGACACTGGAGGTTCTAGCAGTGAAGGA	960
Db	1498	GGAGAGCAGGTGTTCTTGCCCAAATACCGAGGGGACACTGGAGGTTCTAGCAGTGAAGGA	1557
Qy	961	CAGCCTGATGACACAGCTTCTCTGCGAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATGGACA	1020
Db	1558	CAGCCTGATGACACAGCTTCTCTGCGAGGCCCTAAGCCTGGAGCTCCCTTCCCTAATGGACA	1617
Qy	1021	CGTGGGTGTGGAGGACAGTGGGCTGTCCCACTTCCACCCCGGCTCTGTGGGGGCTCTGTC	1080
Db	1618	CGTGGGTGTGTGGAGGACAGTGGGCTGTCCCACTTCCACCCCGGCTCTGTGGGGGCTCTGTC	1677
Qy	1081	CTGTGATGTCTCCGTACGTGTGTGTGGGTGAGCCACCGAGGCGCAGGAGTGTGTCCGGG	1140
Db	1678	CTGTGATGTCTCCGTACGTGTGTGTGGGTGAGCCACCGAGGCGCAGGAGTGTGTCCGGG	1737
Qy	1141	CCGGGGCATCTGCTGSACTCCGCCATCTCTGGATAGTGCCTTCTCTGTCCAGGTGGC	1200
Db	1738	CCGGGGCATCTGCTGSACTCCGCCATCTCTGGATAGTGCCTTCTCTGTGTCCAGGTGGC	1797

Qy 1201 CCATCCCTGTTATGGGCTCCATTGTCCAGTCCAGCAGTGTGTCACTGCTGCTATATGGT 1260
Db 1798 CCATCCCTGTTATGGGCTCCATTGTCCAGTCCAGCAGTGTGTCACTGCTGCTATATGGT 1857
Qy 1261 GTCTGCCGAGCCTGGGCTGGTGGCCGCAATTTACTTTCGCTACACAGGTAGTATTGACAA 1320
Db 1858 GTCTGCCGAGCCTGGGCTGGTGGCCGCAATTTACTTTCGCTACACAGGTAGTATTGACAA 1917
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939
RESULT 12
US-09-679-426-110
; Sequence 110, Application US/09679426
; Patent No. 6759515
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fauger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriack
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Rasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121-427C20
; CURRENT APPLICATION NUMBER: US/09/679,426
; NUMBER OF SEQ ID NOS: 895
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-679-426-110
Query Match 100.0%; Score 1342; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGCGGCTGGCTAGCAGGGCTGTGTGCCGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 598 GGCGGCTGGCTAGCAGGGCTGTGTGCCGATCCAGGCCCTGGAGCTGGCACTGCT 657
Qy 61 CATCTGGGCTGGGCTGGGCTGTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 120
Db 658 CATCTGGGCTGGGCTGGGCTGTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 717
Qy 121 CCTGCTCTGACCTCTTCGGGACCCGGACCACTGTGGCCAGGCTACTCTGTATGC 180
Db 718 CCTGCTCTGACCTCTTCGGGACCCGGACCACTGTGGCCAGGCTACTCTGTATGC 777
Qy 181 CTTCAATGATAGTCTTGGGGCTGCCTGGGTACTCTCTGCTGCCAATGATGGGACAC 240
Db 778 CTTCAATGATAGTCTTGGGGCTGCCTGGGTACTCTCTGCTGCCAATGATGGGACAC 837
Qy 241 CAGTGCCTTGGCCCCCTTACCTTGGGACCCAGGAGGTGCTCTTTGGCTGTCACTCT 300
Db 838 CAGTGCCTTGGCCCCCTTACCTTGGGACCCAGGAGGTGCTCTTTGGCTGTCACTCT 897

Qy 301 CATCTTCCTACCTCGTAGCAGCACACACTGCTGTGTGGCTGAGGAGGAGGCTGGGCC 360
Db 898 CATCTTCCTACCTCGTAGCAGCACACACTGCTGTGTGGCTGAGGAGGAGGCTGGGCC 957
Qy 361 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTGTGTGGCCCACTGCTGTCCATGGCG 420
Db 958 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTGTGTGGCCCACTGCTGTCCATGGCG 1017
Qy 421 GGCCCGCTTGGCTTTCGGGAACCTTGGGGCCCTGCTTCCCGGGCTGACACAGCTGTGTG 480
Db 1018 GGCCCGCTTGGCTTTCGGGAACCTTGGGGCCCTGCTTCCCGGGCTGACACAGCTGTGTG 1077
Qy 481 CCGCATGCCCGCACCTCGCGCCGCTCTTCTGTGGCTGAGCTGTGCACTGGATGGCACT 540
Db 1078 CCGCATGCCCGCACCTCGCGCCGCTCTTCTGTGGCTGAGCTGTGCACTGGATGGCACT 1137
Qy 541 CATGACCTTACGCTGTGTTTACACGATTTCTGTGGCGAGGGCTGTACAGGGCGTGC 600
Db 1138 CATGACCTTACGCTGTGTTTACACGATTTCTGTGGCGAGGGCTGTACAGGGCGTGC 1197
Qy 601 CAGAGCTGAGCCGGGACCCGAGGCCCGAGACACTATGATGAAGCGTTCGGATGGGCGAG 660
Db 1198 CAGAGCTGAGCCGGGACCCGAGGCCCGAGACACTATGATGAAGCGTTCGGATGGGCGAG 1257
Qy 661 CCTGGGGCTGTTCCTGAGTGGCGCATCTCCCTGCTCTCTCTGTGGTCACTGGACCGGCT 720
Db 1258 CCTGGGGCTGTTCCTGAGTGGCGCATCTCCCTGCTCTCTCTGTGGTCACTGGACCGGCT 1317
Qy 721 GGTGACGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 780
Db 1318 GGTGACGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 1377
Qy 781 TGCGGTGCCACATGCTGCTGCCAGTGTGGCGTGTGACAGCTTCAGCGCCCTCAC 840
Db 1378 TGCGGTGCCACATGCTGCTGCCAGTGTGGCGTGTGACAGCTTCAGCGCCCTCAC 1437
Qy 841 CGGGTTACCTTCTCAGCCCTCGAGATCTGCCCTTACACACTGGCCTCCCTCTACACCG 900
Db 1438 CGGGTTACCTTCTCAGCCCTCGAGATCTGCCCTTACACACTGGCCTCCCTCTACACCG 1497
Qy 901 GGAGAACGAGTGTCTTGCCCAATAATACGAGGGGACACTGGAGGTGTACAGTAGGA 960
Db 1498 GGAGAACGAGTGTCTTGCCCAATAATACGAGGGGACACTGGAGGTGTACAGTAGGA 1557
Qy 961 CAGCTGATGACCACTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACA 1020
Db 1558 CAGCTGATGACCACTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACA 1617
Qy 1021 CGTGGGTGCTGGAGGAGTGGCTGCTCCCACTCCACCCCGCTCTGCGGGGCTCTGCG 1080
Db 1618 CGTGGGTGCTGGAGGAGTGGCTGCTCCCACTCCACCCCGCTCTGCGGGGCTCTGCG 1677
Qy 1081 CTGTGATGTCTCCGTACGTGTGGTGGGTGAGCCCAACGAGGCCAGGGTGGTTCGGGG 1140
Db 1678 CTGTGATGTCTCCGTACGTGTGGTGGGTGAGCCCAACGAGGCCAGGGTGGTTCGGGG 1737
Qy 1141 CCGGGGATCTGCTGGACCTCGCCATCTCGGATAGTGTCTCTGCTGTCCAGGTGGC 1200
Db 1738 CCGGGGATCTGCTGGACCTCGCCATCTCGGATAGTGTCTCTGCTGTCCAGGTGGC 1797
Qy 1201 CCATCCCTGTTTATGGGCTCCATTTGTCAGCTCAGCAGTCTGTCTCACTGCTATATGGT 1260
Db 1798 CCATCCCTGTTTATGGGCTCCATTTGTCAGCTCAGCAGTCTGTCTCACTGCTATATGGT 1857
Qy 1261 GTCTGCCGAGGCTGGGTCTGGTGCCTATTTACTTTGCTACACAGGTAGTATTGACAA 1320
Db 1858 GTCTGCCGAGGCTGGGTCTGGTGCCTATTTACTTTGCTACACAGGTAGTATTGACAA 1917
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939

RESULT 13

US-09-759-143-110
; Sequence 110, Application US/09759143
; Patent No. 6800746

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-110

Query Match 100.0%; Score 1342; DB 4; Length 3410;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	GGCCGGCTGGCTAGCAGGCTGCTGCTGCCGATCCAGGCCCCCTGGAGCTGGCACTGCT	60
DB	598	GGCCGGCTGGCTAGCAGGCTGCTGCTGCCGATCCAGGCCCCCTGGAGCTGGCACTGCT	657
QY	61	CATCTCGGCGTGGGCTGCTGGACTCTGTGGCCAGGTGTCTTCACTCACTGGAGGC	120
DB	658	CATCTCGGCGTGGGCTGCTGGACTCTGTGGCCAGGTGTCTTCACTCACTGGAGGC	717
QY	121	CCTGCTCTGACCTCTTCCGGGACCCGACCACTGTGCCAGGCTACTCTGTCTATGC	180
DB	718	CCTGCTCTGACCTCTTCCGGGACCCGACCACTGTGCCAGGCTACTCTGTCTATGC	777
QY	181	CTTCATGATCAGTCTTTGGGGCTGCTGGGCTACTCTGCTGCACTGGGACAC	240
DB	778	CTTCATGATCAGTCTTTGGGGCTGCTGGGCTACTCTGCTGCACTGGGACAC	837
QY	241	CAGTCCCTTGGCCCCCTACCTGGGACCCAGAGGAGTGCCTTTTGGCCCTGCTCACCT	300
DB	838	CAGTCCCTTGGCCCCCTACCTGGGACCCAGAGGAGTGCCTTTTGGCCCTGCTCACCT	897
QY	301	CATCTCTCTACCTGCTAGCAGCACACTGCTGTGTGGTGGAGGAGGCTGGGCC	360
DB	898	CATCTCTCTACCTGCTAGCAGCACACTGCTGTGTGGTGGAGGAGGCTGGGCC	957
QY	361	CACCGAGCAGCAGAGGCTGTGGGCCCCCTCTGTGTGCCCCCACTGCTGCCATGCCG	420
DB	958	CACCGAGCAGCAGAGGCTGTGGGCCCCCTCTGTGTGCCCCCACTGCTGCCATGCCG	1017
QY	421	GGCCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGGCTGCACTGCTGTG	480
DB	1018	GGCCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGGCTGCACTGCTGTG	1077
QY	481	CGCATGCCCGCACCTGCGCGGCTCTTGTGTGCTGAGCTGTGAGCTGGTGGCACT	540

DB	1078	CCGCATGCCCGCACCTCTGCGCCGCTCTTCTGTGCTGAGCTGTGCACTGGATGGCACT	1137
QY	541	CATGACCTTACGCTGTTTTTACGGATTTCTGTGGCGAGGGCTGTACACAGGGCTGGC	600
DB	1138	CATGACCTTACGCTGTTTTTACGGATTTCTGTGGCGAGGGCTGTACACAGGGCTGGC	1197
QY	601	CAGAGCTGAGCCGGGACCCGAGGCCGAGACACTATGATGAAGCGTTCGATGGGAG	660
DB	1198	CAGAGCTGAGCCGGGACCCGAGGCCGAGACACTATGATGAAGCGTTCGATGGGAG	1257
QY	661	CCTGGGCTGTTCTGCACTGCGGCATCTCCCTGGTCTTCTCTGTGCTCATGAGCGGCT	720
DB	1258	CCTGGGCTGTTCTGCACTGCGGCATCTCCCTGGTCTTCTCTGTGCTCATGAGCGGCT	1317
QY	721	GGTGCAAGGATTCGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGC	780
DB	1318	GGTGCAAGGATTCGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGC	1377
QY	781	TGCCGGTGCCACATGCTCTGCCACAGTGTGGCGTGTGACAGCTTCAGCGCCCTCAC	840
DB	1378	TGCCGGTGCCACATGCTCTGCCACAGTGTGGCGTGTGACAGCTTCAGCGCCCTCAC	1437
QY	841	CGGCTTACCTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGGCTCCCTTACACCG	900
DB	1438	CGGCTTACCTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGGCTCCCTTACACCG	1497
QY	901	GGAGAAGCAGGTGTTCTGCCCAAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGGA	960
DB	1498	GGAGAAGCAGGTGTTCTGCCCAAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGGA	1557
QY	961	CAGCTGATGACCACTGCTCTGCCAGGCCCTTAAAGCTGAGCTCCCTTAAATGAGACA	1020
DB	1558	CAGCTGATGACCACTGCTCTGCCAGGCCCTTAAAGCTGAGCTCCCTTAAATGAGACA	1617
QY	1021	CGTGGTGTGGAGGAGTGGCTGCTCCACCTCCACCGGCTCTGGGGGCTCTGCG	1080
DB	1618	CGTGGTGTGGAGGAGTGGCTGCTCCACCTCCACCGGCTCTGGGGGCTCTGCG	1677
QY	1081	CTGTGATGTCCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG	1140
DB	1678	CTGTGATGTCCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG	1737
QY	1141	CCGGGGATCTGCTGGACCTCGGCATCTCGGATGAGTGCCTTCTGTGCTCCAGGTGGC	1200
DB	1738	CCGGGGATCTGCTGGACCTCGGCATCTCGGATGAGTGCCTTCTGTGCTCCAGGTGGC	1797
QY	1201	CCCATCCCTGTTATGGGCTCCATTGTCCAGCTCAGCCAGTGTGCTGCTATATGCT	1260
DB	1798	CCCATCCCTGTTATGGGCTCCATTGTCCAGCTCAGCCAGTGTGCTGCTATATGCT	1857
QY	1261	GTCTGCGCAGGCTGGGTCTGGTCCCATTTACTTTTGTACACAGGTAGTATTTGACAA	1320
DB	1858	GTCTGCGCAGGCTGGGTCTGGTCCCATTTACTTTTGTACACAGGTAGTATTTGACAA	1917
QY	1321	GAGGACTTGGCCAAATCTCA 1342	
DB	1918	GAGGACTTGGCCAAATCTCA 1939	

RESULT 14

US-09-651-236-110
; Sequence 110, Application US/09651236
; Patent No. 6818751

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.

APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.42718C18
CURRENT APPLICATION NUMBER: US/09/651.236
CURRENT FILING DATE: 2000-08-29
NUMBER OF SEQ ID NOS: 865
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 110
LENGTH: 3410
TYPE: DNA
ORGANISM: Homo sapien
US-09-651-236-110

Query Match 100.0%; Score 1342; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGCTGGCTAGCAGGGCTGCTGTGCCCGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 598 GGCGGCTGGCTAGCAGGGCTGCTGTGCCCGATCCAGGCCCTGGAGCTGGCACTGCT 657

Qy 61 CATCTGGCGGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 120
Db 658 CATCTGGCGGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 717

Qy 121 CCTGCTCTGACCTTCTCCGGACCCGGACCACTGTGCCAGGCTACTCTGTCTATGC 180
Db 718 CCTGCTCTGACCTTCTCCGGACCCGGACCACTGTGCCAGGCTACTCTGTCTATGC 777

Qy 181 CTTATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCTTGAATGGACAC 240
Db 778 CTTATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCTTGAATGGACAC 837

Qy 241 CAGTGGCTGGCCCTTACCTAGTGGGACCCAGGAGAGTGTCTTGGCCCTGTCAACCT 300
Db 838 CAGTGGCTGGCCCTTACCTAGTGGGACCCAGGAGAGTGTCTTGGCCCTGTCAACCT 897

Qy 301 CATCTTCTACCTGCTAGCAGCCACACTGCTGGTGGCTGAGGAGGCGCTGGGCCC 360
Db 898 CATCTTCTACCTGCTAGCAGCCACACTGCTGGTGGCTGAGGAGGCGCTGGGCCC 957

Qy 361 CACGAGCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCCCCCACTGCTGTCATGCGC 420
Db 958 CACGAGCAGCAGAGGGCTGTGGGCCCCCTCTTGTGCCCCCACTGCTGTCATGCGC 1017

Qy 421 GGCCCGCTTGGCTTTCGGAACTCTGGGCGCCCTGCTTCCCGGCTGCAACCACTGTGCTG 480
Db 1018 GGCCCGCTTGGCTTTCGGAACTCTGGGCGCCCTGCTTCCCGGCTGCAACCACTGTGCTG 1077

Qy 481 CCGATGCCCCCGACCTTGGCCGGCTCTTGTGGCTGAGCTGTGCACTGGATGGCACT 540
Db 1078 CCGATGCCCCCGACCTTGGCCGGCTCTTGTGGCTGAGCTGTGCACTGGATGGCACT 1137

Qy 541 CATGACCTTACGCTGTTTACAGGATTTCTGGGCGAGGGCTGTACAGGCGCTGGCC 600
Db 1138 CATGACCTTACGCTGTTTACAGGATTTCTGGGCGAGGGCTGTACAGGCGCTGGCC 1197

Qy 601 CAGAGCTGAGCCGGGACCCAGGCGCGGAGACACTATGATGAAGCGTTCGGATGGGCG 660
Db 1198 CAGAGCTGAGCCGGGACCCAGGCGCGGAGACACTATGATGAAGCGTTCGGATGGGCG 1257

Qy 661 CTTGGGCTGTCTGAGTGGGCACTCTCCCTGCTTCTCTCTGCTGATGGACCGCT 720
Db 1258 CTTGGGCTGTCTGAGTGGGCACTCTCCCTGCTTCTCTCTGCTGATGGACCGCT 1317

Qy 721 GGTGAGCGATTGCGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGC 780
Db 1318 GGTGAGCGATTGCGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGC 1377

Qy 781 TGCCGGTGCCACATGCTGCTGCCACAGTGTGGCGTGTGACAGCTTTCAGCGCCCTCAC 840
Db 1378 TGCCGGTGCCACATGCTGCTGCCACAGTGTGGCGTGTGACAGCTTTCAGCGCCCTCAC 1437

Qy 841 CGGGTTCACCTTCTCAGCCCTGAGATCCTGCCCTACACACTGGCCTCCCTCTACACCG 900
Db 1438 CGGGTTCACCTTCTCAGCCCTGAGATCCTGCCCTACACACTGGCCTCCCTCTACACCG 1497

Qy 901 GGAGAAGCAGGTGTTCTGCCCCAAATACCCAGGGGACACTGGAGGTGCTAGCAGTGAGA 960
Db 1498 GGAGAAGCAGGTGTTCTGCCCCAAATACCCAGGGGACACTGGAGGTGCTAGCAGTGAGA 1557

Qy 961 CAGCTGATGACAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACA 1020
Db 1558 CAGCTGATGACAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACA 1617

Qy 1021 CGTGGGTGCTGGAGCAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1080
Db 1618 CGTGGGTGCTGGAGCAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1677

Qy 1081 CTGTGATGCTCTCCGTACCTGTGTGGTGGGTGAGCCACCCAGGCGGCTGGTTCGGG 1140
Db 1678 CTGTGATGCTCTCCGTACCTGTGTGGTGGGTGAGCCACCCAGGCGGCTGGTTCGGG 1737

Qy 1141 CCGGGGCACTGTGCTGACCTGCGCATCTCTGGATGAGTGTCTGTCTGCCAGGTGGC 1200
Db 1738 CCGGGGCACTGTGCTGACCTGCGCATCTCTGGATGAGTGTCTGTCTGCCAGGTGGC 1797

Qy 1201 CCCATCCCTGTTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGCTCATATATGGT 1260
Db 1798 CCCATCCCTGTTTATGGGCTCCATTTGTCAGCTCAGCCAGTCTGCTCATATATGGT 1857

Qy 1261 GTCTGCGCAGGCGCTGGGTCTGGTGGCTGCGCATTTATTTGTACACAGGTAGTATTGACA 1320
Db 1858 GTCTGCGCAGGCGCTGGGTCTGGTGGCTGCGCATTTATTTGTACACAGGTAGTATTGACA 1917

Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939

RESULT 15
US-09-636-215-703
Sequence 703, Application US/09636215
Patent No. 6620922
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqi
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Panger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.42717C17
CURRENT APPLICATION NUMBER: US/09/636.215
CURRENT FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 852

```
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-636-215-703

Query Match      61.0%; Score 819; DB 4; Length 2904;
Best Local Similarity 77.4%; Pred. No. 1.5e-194;
Matches 1170; Conservative 0; Mismatches 0; Indels 341; Gaps 1;

QY 173 GTCTATGCTTCATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTGAC 232
Db 1 GTCTATGCTTCATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTGAC 60

QY 233 TGGGACACGAGTGCCTGGCCCTTACCTGGGACCCAGGAGTGCCTCTTTGGCCTG 292
Db 61 TGGGACACGAGTGCCTGGCCCTTACCTGGGACCCAGGAGTGCCTCTTTGGCCTG 120

QY 293 CTCACCTCATCTTCTTCACTGCTAGCAGCACACTGCTGGTGGCTGAGGAGCAGCG 352
Db 121 CTCACCTCATCTTCTTCACTGCTAGCAGCACACTGCTGGTGGCTGAGGAGCAGCG 180

QY 353 CTGGGCCCCACGAGCAGAGAGGGCTGTGGGCCCCCTCTTGTGGCCCCACTGCTGT 412
Db 181 CTGGGCCCCACGAGCAGAGAGGGCTGTGGGCCCCCTCTTGTGGCCCCACTGCTGT 240

QY 413 CCATGCCGGCCCCGCTTGGCTTCCGGAACCTGGGGGCCCTGCTTCCCGGCTGCACCG 472
Db 241 CCATGCCGGCCCCGCTTGGCTTCCGGAACCTGGGGGCCCTGCTTCCCGGCTGCACCG 300

QY 473 CTGTGCTGCCGATGCCCGCACCTTGGCGCGCTCTTCTGGCTGAGCTGTGCAAGCTGG 532
Db 301 CTGTGCTGCCGATGCCCGCACCTTGGCGCGCTCTTCTGGCTGAGCTGTGCAAGCTGG 360

QY 533 ATGGCACTCATGACCTTCACTGCTTTACAGGATTTCTGGGGCGAGGGCTGTACCG 592
Db 361 ATGGCACTCATGACCTTCACTGCTTTACAGGATTTCTGGGGCGAGGGCTGTACCG 420

QY 593 GCGGCGCCAGAGCTGAGCGGGGACCGAGGCCGAGACACTATGATGAA----- 643
Db 421 GCGGCGCCAGAGCTGAGCGGGGACCGAGGGCCGAGGCCGAGACACTATGATGAAAGGCGCT 480

QY 644 ----- 643
Db 481 CTGGCTGCTCTAGGAGTCTGATCAGATCGTTGCCCCAGTTTGACAGAGGAAGCGCGA 540

QY 644 ----- 643
Db 541 GCTTATTCAAAGTCTAGAGGGAGTGGAGAGTTAAGGCTGGATTTTCAGATCTGCTGGTT 600

QY 644 ----- 643
Db 601 CCAGCGGAGTGTGCCCTCTGCTCCCCCAACGACTTTCCAAATAATCTCACAGGCGCTT 660

QY 644 ----- 643
Db 661 CCAGCTCAGGCGTCTAGAGGCTCTTGAAGCCTATGGCAGCTGTCTTTGTGTTCCCTC 720

QY 644 ----- 643
Db 721 TCACCCGCGCTGCTCTCACAGCTGAGACTCCAGGAAACCTTCAGACTACCTTCTCTGCC 780

QY 644 -----GGCGTTCCGATGGGAGCAGCTTGGGGCTGT 671
Db 781 TTCAGCAAGGGCGGTTGCCCAATTCTCTGAGGGGCTTCGATGGGAGCCTTGGGGCTGT 840

QY 672 TCCTCAGTGCAGCTCTCTCTGGTCTTCTCTGATGACCGGCTGTGTGACGCGAT 731
Db 841 TCCTCAGTGCAGCTCTCTCTGGTCTTCTCTGATGACCGGCTGTGTGACGCGAT 900

QY 732 TGGCACTGCGAGCAGTCTATTTGGGCGAGTGGGAGCTTTCCCTGTGGCTGCCGTGCCA 791
Db 791 TGGCACTGCGAGCAGTCTATTTGGGCGAGTGGGAGCTTTCCCTGTGGCTGCCGTGCCA 791
```

Search completed: June 16, 2005, 04:10:23
Job time : 262.349 secs

```
Db 901 TCGGCACTCGAGAGTCTATTTTGGCCAGTGTGGCAGCTTTCCCTGTGTGCTGCCGTGCCA 960
QY 792 CATGCTGTGTCACACAGTGTGGCCGTGGTGACAGCTTTCAGCGCCCTCACCCGGGTTCACTT 851
Db 961 CATGCTGTGTCACACAGTGTGGCCGTGGTGACAGCTTTCAGCGCCCTCACCCGGGTTCACTT 1020
QY 852 TCTCAGCCCTGCAGATCCTGCTTACACACTGGGCTCCCTCTACCCACGGGAGAGCAGG 911
Db 1021 TCTCAGCCCTGCAGATCCTGCTTACACACTGGGCTCCCTCTACCCACGGGAGAGCAGG 1080
QY 912 TGTTCCTGCCCAATAACGAGGGGACACTGAGAGTGTAGCAGTGAGACAGCCTGATGA 971
Db 1081 TGTTCCTGCCCAATAACGAGGGGACACTGAGAGTGTAGCAGTGAGACAGCCTGATGA 1140
QY 972 CCAGCTTCTCCAGGCCCTTAAGCTGTGAGCTCCCTTCCCTTAATGGACACGTTGGGTGCTG 1031
Db 1141 CCAGCTTCTCCAGGCCCTTAAGCTGTGAGCTCCCTTCCCTTAATGGACACGTTGGGTGCTG 1200
QY 1032 GAGCAGTGGCTTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCTGCTGTGATGTCT 1091
Db 1201 GAGCAGTGGCTTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCTGCTGTGATGTCT 1260
QY 1092 CCGTACGTGTGGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGGGGCATCT 1151
Db 1261 CCGTACGTGTGGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGGCGGGGCATCT 1320
QY 1152 GCCTGGACCTCGCCATCCTGGATAGTGTCTTCTGCTGTCCAGGTGGCCCATCCCTGT 1211
Db 1321 GCCTGGACCTCGCCATCCTGGATAGTGTCTTCTGCTGTCCAGGTGGCCCATCCCTGT 1380
QY 1212 TTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCTTATATGCTGTCTGCCGAG 1271
Db 1381 TTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCTTATATGCTGTCTGCCGAG 1440
QY 1272 GCCTGGGCTGGTGGCCATTTACTTTGCTACAGTAGTATTTTGCACAAGAGCGACTTGG 1331
Db 1441 GCCTGGGCTGGTGGCCATTTACTTTGCTACAGTAGTATTTTGCACAAGAGCGACTTGG 1500
QY 1332 CCAATACTCA 1342
Db 1501 CCAATACTCA 1511
```

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2005, 03:52:53 ; Search time 973.131 Seconds
(without alignments)
8560.543 Million cell updates/sec

Title: US-09-605-783A-110_COPY_598_1939
Perfect score: 1342
Sequence: 1 ggcgcgtgtagcaggcc.....gcgacttgccaaataactca 1342

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 6054689 seqs, 3103772919 residues

Total number of hits satisfying chosen parameters: 12109378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1342	100.0	1662	16	US-10-005-907-12 Sequence 12, Appl
2	1342	100.0	1662	17	US-10-295-027-547 Sequence 547, App
3	1342	100.0	2133	15	US-10-296-770-3 Sequence 3, Appli
4	1342	100.0	2582	17	US-10-295-027-901 Sequence 901, App
5	1342	100.0	3320	9	US-09-838-785-1 Sequence 1, Appli
6	1342	100.0	3332	21	US-10-936-626-21 Sequence 21, Appl
7	1342	100.0	3332	21	US-10-938-061-21 Sequence 21, Appl

8	1342	100.0	3410	9	US-09-745-288-100	Sequence 100, App
9	1342	100.0	3410	9	US-09-759-143-110	Sequence 110, App
10	1342	100.0	3410	9	US-09-780-669-110	Sequence 110, App
11	1342	100.0	3410	9	US-09-030-606-110	Sequence 110, App
12	1342	100.0	3410	9	US-09-822-827-110	Sequence 110, App
13	1342	100.0	3410	9	US-09-115-453-110	Sequence 110, App
14	1342	100.0	3410	9	US-09-232-880-110	Sequence 110, App
15	1342	100.0	3410	9	US-09-895-793-110	Sequence 110, App
16	1342	100.0	3410	9	US-09-895-814-110	Sequence 110, App
17	1342	100.0	3410	13	US-10-012-896-110	Sequence 110, App
18	1342	100.0	3410	14	US-10-010-940-110	Sequence 110, App
19	1342	100.0	3410	16	US-10-144-678A-110	Sequence 110, App
20	1342	100.0	3410	16	US-10-294-025-110	Sequence 110, App
21	1342	100.0	3410	18	US-10-453-919-100	Sequence 100, App
22	1342	100.0	3410	19	US-10-688-838-110	Sequence 110, App
23	1340.4	99.9	1702	19	US-10-403-142-1	Sequence 1, Appli
24	886.4	66.1	918	16	US-10-144-678A-1027	Sequence 1027, App
25	886.4	66.1	918	16	US-10-294-025-1027	Sequence 1027, App
26	819	61.0	2904	9	US-09-759-143-703	Sequence 703, App
27	819	61.0	2904	9	US-09-780-669-703	Sequence 703, App
28	819	61.0	2904	9	US-09-822-827-703	Sequence 703, App
29	819	61.0	2904	9	US-09-895-793-703	Sequence 703, App
30	819	61.0	2904	9	US-09-895-814-703	Sequence 703, App
31	819	61.0	2904	13	US-10-012-896-703	Sequence 703, App
32	819	61.0	2904	16	US-10-144-678A-703	Sequence 703, App
33	819	61.0	2904	16	US-10-294-025-703	Sequence 703, App
34	763	56.9	2152	9	US-09-841-894-16	Sequence 16, Appl
35	755	56.3	2143	9	US-09-841-894-15	Sequence 15, Appl
36	711	53.0	741	16	US-10-144-678A-1026	Sequence 1026, App
37	711	53.0	741	16	US-10-294-025-1026	Sequence 1026, App
38	701.4	52.3	4034	9	US-09-759-143-704	Sequence 704, App
39	701.4	52.3	4034	9	US-09-780-669-704	Sequence 704, App
40	701.4	52.3	4034	9	US-09-822-827-704	Sequence 704, App
41	701.4	52.3	4034	9	US-09-895-793-704	Sequence 704, App
42	701.4	52.3	4034	9	US-09-895-814-704	Sequence 704, App
43	701.4	52.3	4034	13	US-10-012-896-704	Sequence 704, App
44	701.4	52.3	4034	16	US-10-144-678A-704	Sequence 704, App
45	701.4	52.3	4034	16	US-10-294-025-704	Sequence 704, App

ALIGNMENTS

RESULT 1

US-10-005-907-12
; Sequence 12, Application US/10005907
; Publication No. US20030166881A1
; GENERAL INFORMATION:
; APPLICANT: Union Chimique Belge, S.A.
; APPLICANT: No. US20030166881A1ka, Karl
; APPLICANT: Pirozzi, Gregory
; APPLICANT: Einstein, Richard
; TITLE OF INVENTION: NOVEL GENES ASSOCIATED WITH ALLERGIC HYPERSENSITIVITY AND MAST CE
; FILE OF INVENTION: ACTIVATION
; FILE REFERENCE: 053529-5005
; CURRENT APPLICATION NUMBER: US/10/005,907
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 12
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1662)
; OTHER INFORMATION:
US-10-005-907-12

Query Match 100.0%; Score 1342; DB 16; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCTGGCTAGCAGGGCTGCTGTGCCCCGAGATCCCAAGGCCCTGGAGCTGGCACTGCT 60
Db 315 GCGCGCTGGCTAGCAGGGCTGCTGTGCCCCGAGATCCCAAGGCCCTGGAGCTGGCACTGCT 374
QY 61 CATCTCTGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTCACTCCACATGGAGGC 120
Db 375 CATCTCTGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTCACTCCACATGGAGGC 434
QY 121 CTTGCTCTGCTGACCTCTTCCTGGGAGCCCGAGACCACTGTGCGCAGGCTACTCTGTCTATGC 180
Db 435 CTTGCTCTGCTGACCTCTTCCTGGGAGCCCGAGACCACTGTGCGCAGGCTACTCTGTCTATGC 494
QY 181 CTTGATGATCAGTCTTGGGGCTGCTGGGGCTACTCTCTGCTGCTGCATTTGACTGGGAAC 240
Db 495 CTTGATGATCAGTCTTGGGGCTGCTGGGGCTACTCTCTGCTGCTGCATTTGACTGGGAAC 554
QY 241 CAGTGGCTGGCCCCCTACCTGGGACCCAGGAGAGTGCCTCTTTGGCTGCTCAACCT 300
Db 555 CAGTGGCTGGCCCCCTACCTGGGACCCAGGAGAGTGCCTCTTTGGCTGCTCAACCT 614
QY 301 CATCTTCCTCAGCTGCTAGCAGCACACTGTGCTGCTGAGGAGGAGGCTGGGCCC 360
Db 615 CATCTTCCTCAGCTGCTAGCAGCACACTGTGCTGCTGAGGAGGAGGCTGGGCCC 674
QY 361 CACCAGGACAGAGAAGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGCTGTCCATGCGG 420
Db 675 CACCAGGACAGAGAAGGCTGTGCGGCCCTCTCTTGTGCGCCCACTGCTGTCCATGCGG 734
QY 421 GCGCGCTTGGCTTTCGCGAACCTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGCTG 480
Db 735 GCGCGCTTGGCTTTCGCGAACCTGGGCGCCCTGCTTCCCGGCTGCACAGCTGTGCTG 794
QY 481 CCGCATGCCCCGACCCCTGCGCGGCTCTTCTGCTGCTGAGCTGTGCACTGGATGCGCACT 540
Db 795 CCGCATGCCCCGACCCCTGCGCGGCTCTTCTGCTGCTGAGCTGTGCACTGGATGCGCACT 854
QY 541 CATGACCTTCAGCTGTTTACACGGATTTCTGTGGCGAGGGCTGTATACAGGGGCTGCC 600
Db 855 CATGACCTTCAGCTGTTTACACGGATTTCTGTGGCGAGGGCTGTATACAGGGGCTGCC 914
QY 601 CAGAGCTGAGCGCGGACCGAGGCGCGGAGACACTATGATGAAGCGTTTCGATGGGCGAG 660
Db 915 CAGAGCTGAGCGCGGACCGAGGCGCGGAGACACTATGATGAAGCGTTTCGATGGGCGAG 974
QY 661 CTTGGGGCTGTTCTCTGAGTGGCCATCTCCCTGCTTCTCTCTGCTCATGAGCGGCT 720
Db 975 CTTGGGGCTGTTCTCTGAGTGGCCATCTCCCTGCTTCTCTCTGCTCATGAGCGGCT 1034
QY 721 GGTGAGCGATTCGGCACTCGAGCACTATTTTGGCCAGTGTGGAGAGCTTTCCCTGTGGC 780
Db 1035 GGTGAGCGATTCGGCACTCGAGCACTATTTTGGCCAGTGTGGAGAGCTTTCCCTGTGGC 1094
QY 781 TGCCGGTGCCACATCGCTGCCACAGTGTGGCGTGGTGGACAGCTTCAGCGCCCTCAC 840
Db 1095 TGCCGGTGCCACATCGCTGCCACAGTGTGGCGTGGTGGACAGCTTCAGCGCCCTCAC 1154
QY 841 CCGGTTTACCTTCTCAGCGCTGCAGATCTGCGCTTACACACTGCGGCTCCCTCTACACCG 900
Db 1155 CCGGTTTACCTTCTCAGCGCTGCAGATCTGCGCTTACACACTGCGGCTCCCTCTACACCG 1214
QY 901 GGAGAGCAGGTGTTCTGCGCCCAATAACGAGGGAGACACTGAGAGTGTCTAGCAGTGGGA 960
Db 1215 GGAGAGCAGGTGTTCTGCGCCCAATAACGAGGGAGACACTGAGAGTGTCTAGCAGTGGGA 1274
QY 961 CAGCCTGATGACAGCTTCTGCGAGGCGCTTAAGCTTGGAGCTTCCCTTCCCTTAATGGACA 1020
Db 1275 CAGCCTGATGACAGCTTCTGCGAGGCGCTTAAGCTTGGAGCTTCCCTTCCCTTAATGGACA 1334
QY 1021 CTTGGGTGCTGAGGAGTGGGCTGCTCCCACTTCCACCGGCTCTCGGGGCTCTGCG 1080
Db 1335 CTTGGGTGCTGAGGAGTGGGCTGCTCCCACTTCCACCGGCTCTCGGGGCTCTGCG 1394
QY 1081 CTGTGATGTTCCGTACGTGTGGTGGTGGAGGCCACCGAGGCCAGGGTGGTTCGCGG 1140

Db 1395 CTGTGATGTTCTCGTACGTGTGGTGGTGGAGCCCAACGAGGCCAGGGTGGTTCGCGG 1454
QY 1141 CCGGGGATCTGCTCGACCTCGCATCTCGGATAGTGCCTTCTGCTGTCCAGGTGGC 1200
Db 1455 CCGGGGATCTGCTCGACCTCGCATCTCGGATAGTGCCTTCTGCTGTCCAGGTGGC 1514
QY 1201 CCGATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTCTCACTGCTATATGGT 1260
Db 1515 CCGATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTCTCACTGCTATATGGT 1574
QY 1261 GTCTGCCGACGCTGGTCTGGTCCCATTTACTTGTACACAGGTAGTATTTGACAA 1320
Db 1575 GTCTGCCGACGCTGGTCTGGTCCCATTTACTTGTACACAGGTAGTATTTGACAA 1634
QY 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1635 GAGCGACTTGGCCAAATACTCA 1656
RESULT 2
US-10-295-027-547
; Sequence 547, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 547
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-547
Query Match 100.0%; Score 1342; DB 17; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1062 CATCTTCCTACCTCGGTAGCAGCAGACACTGCTGTGTGGCTGAGGAGCGCTGGGGCC 1121
Qy 361 CACCGAGCAGCAGAGAGGCTGTGGGCCCCCTCTCTGTGCGCCCACTGCTGTCCATGCGG 420
Db 1122 CACCGAGCAGCAGAGAGGCTGTGGGCCCCCTCTCTGTGCGCCCACTGCTGTCCATGCGG 1181
Qy 421 GCGCGCTTGGCTTTCCGGAACCTGGGCGCCCTGTCTCCCGGCTGCAACAGCTGTGTG 480
Db 1182 GCGCGCTTGGCTTTCCGGAACCTGGGCGCCCTGTCTCCCGGCTGCAACAGCTGTGTG 1241
Qy 481 CCGCATGCGCGCACCTGCGCGGCTCTGTGTGCTGAGCTGTGCACTGTGATGGCACT 540
Db 1242 CCGCATGCGCGCACCTGCGCGGCTCTGTGTGCTGAGCTGTGCACTGTGATGGCACT 1301
Qy 541 CATGACCTTACGCTGTTTACACGATTTCTGTGGCGAGGGCTGTACACAGGGGCTGCC 600
Db 1302 CATGACCTTACGCTGTTTACACGATTTCTGTGGCGAGGGCTGTACACAGGGGCTGCC 1361
Qy 601 CAGAGCTGAGCGCGGACCGAGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCGAG 660
Db 1362 CAGAGCTGAGCGCGGACCGAGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCGAG 1421
Qy 661 CCGGGGCTGTTCTGCACTGCGAGTCTCTCCCTGCTCTCTCTGCTCATGAGCGGCT 720
Db 1422 CCGGGGCTGTTCTGCACTGCGAGTCTCTCCCTGCTCTCTCTGCTCATGAGCGGCT 1481
Qy 721 GGTGAGCGATTCGGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGC 780
Db 1482 GGTGAGCGATTCGGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGC 1541
Qy 781 TGCGGGTGCCATGCTGCTCCAGTGTGCGCTGTGAGCAGCTTCAGCGCGCCTCAC 840
Db 1542 TGCGGGTGCCATGCTGCTCCAGTGTGCGCTGTGAGCAGCTTCAGCGCGCCTCAC 1601
Qy 841 CCGGTTACCTTCTCAGCGCTGCAATCTGCGCTTACACTGCGCTTCCCTTACCACCG 900
Db 1602 CCGGTTACCTTCTCAGCGCTGCAATCTGCGCTTACACTGCGCTTCCCTTACCACCG 1661
Qy 901 GGAGAGCAGGTGTTCTGCGCCAAATACCGAGGGACACTGGAGGTGTAGCAGTGAGGA 960
Db 1662 GGAGAGCAGGTGTTCTGCGCCAAATACCGAGGGACACTGGAGGTGTAGCAGTGAGGA 1721
Qy 961 CAGCTGATGACAGCTTCTGCGAGCGCTTAAGCTGAGCTCCCTTCCCTTAATGGACA 1020
Db 1722 CAGCTGATGACAGCTTCTGCGAGCGCTTAAGCTGAGCTCCCTTCCCTTAATGGACA 1781
Qy 1021 CCGGGTGTGAGCAGTGGCTGCTGCGCCTTCCAGCTTCCAGCGCTTCCGGGGCTCTGC 1080
Db 1782 CCGGGTGTGAGCAGTGGCTGCTGCGCCTTCCAGCTTCCAGCGCTTCCGGGGCTCTGC 1841
Qy 1081 CTGTGATGTCTCCGTACGTGTGGTGGTGGGAGCCACCGAGGCGAGGTGTTCCGGG 1140
Db 1842 CTGTGATGTCTCCGTACGTGTGGTGGTGGGAGCCACCGAGGCGAGGTGTTCCGGG 1901
Qy 1141 CCGGGGCACTGCGCTGGAACCTCGCCATCTGTGATAGTGCCTTCTGCTGTCCAGGTGGC 1200
Db 1902 CCGGGGCACTGCGCTGGAACCTCGCCATCTGTGATAGTGCCTTCTGCTGTCCAGGTGGC 1961
Qy 1201 CCGATCCCTGTTATGGGCTCCATTTGTCAGCTGAGCCAGTGTGTCATGCTATATGGT 1260
Db 1962 CCGATCCCTGTTATGGGCTCCATTTGTCAGCTGAGCCAGTGTGTCATGCTATATGGT 2021
Qy 1261 GTCTGCGGAGCGCTGGGTCTGGTGGCCATTTTGTCTACACAGGTAGTATTTGACAA 1320
Db 2022 GTCTGCGGAGCGCTGGGTCTGGTGGCCATTTTGTCTACACAGGTAGTATTTGACAA 2081
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 2082 GAGCGACTTGGCCAAATACTCA 2103

; Sequence 901, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 901
; LENGTH: 2582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(2582)
; OTHER INFORMATION: n = g, a, c or t
US-10-295-027-901

Query Match 100.0%; Score 1342; DB 17; Length 2582;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 624 GGCCGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCAGGCCCTGGAGCTGGCACTGCT 683
Qy 61 CATCTGGGCGTGGGGCTGTGGACTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 120
Db 684 CATCTGGGCGTGGGGCTGTGGACTTCTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 743
Qy 121 CCTGCTCTGACCTTTCGGGACCCGGACCACTGTGCCAGGCTACTCTGTCTATGC 180
Db 744 CCTGCTCTGACCTTTCGGGACCCGGACCACTGTGCCAGGCTACTCTGTCTATGC 803
Qy 181 CTTTCATGATCAGTCTTGGGGGCTGCTGGGCTACTCTCTGCTGCTGCAATGCTGGACAC 240
Db 804 CTTTCATGATCAGTCTTGGGGGCTGCTGGGCTACTCTCTGCTGCTGCAATGCTGGACAC 863
Qy 241 CAGTGGCTTGGCCCCCTTACTTGGGACCCAGGAGGTGCTTCTTGGCTGCTCACCT 300

Db 864 CAGTGCCTGGCCCCCTACTCTGGGCACCCAGAGGAGTGCCCTCTTTGGCCCTGCTCACCCCT 923
Qy 301 CATCTTCTCTACCTGCTAGCAGACACACTCTGTGTGCTGAGGAGGAGCGCTGGGCCC 360
Db 924 CATCTTCTCTACCTGCTAGCAGACACACTCTGTGTGCTGAGGAGGAGCGCTGGGCCC 983
Qy 361 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTTTGTGCCCCCACTCTCTGTCCATGCGC 420
Db 984 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTTTGTGCCCCCACTCTCTGTCCATGCGC 1043
Qy 421 GGCCCGCTTGGCTTTCGGAACCTGGGGCCCTGCTTCCCGGCTGACACAGCTGTGTG 480
Db 1044 GGCCCGCTTGGCTTTCGGAACCTGGGGCCCTGCTTCCCGGCTGACACAGCTGTGTG 1103
Qy 481 CCGCATGCCCGCACCTCGCCGCTCTCTGTGCTGAGCTGTGACGTGAGTGGCACT 540
Db 1104 CCGCATGCCCGCACCTCGCCGCTCTCTGTGCTGAGCTGTGACGTGAGTGGCACT 1163
Qy 541 CATGACCTTACGCTGTTTTTACCGGATTTCTGTGGCGAGGGCTGTACCAAGGCGGTGCC 600
Db 1164 CATGACCTTACGCTGTTTTTACCGGATTTCTGTGGCGAGGGCTGTACCAAGGCGGTGCC 1223
Qy 601 CAGAGCTAGCCGGGACCGAGGCCGAGACACTATGATGAAGCGTTCCGATGGGCGAG 660
Db 1224 CAGAGCTAGCCGGGACCGAGGCCGAGACACTATGATGAAGCGTTCCGATGGGCGAG 1283
Qy 661 CCTGGGCTGTTCTGACGTGGCCATCTCCCTGCTTCTCTCTGTGTCATGGACCGGCT 720
Db 1284 CCTGGGCTGTTCTGACGTGGCCATCTCCCTGCTTCTCTCTGTGTCATGGACCGGCT 1343
Qy 721 GGTGAGCGATTCGGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGC 780
Db 1344 GGTGAGCGATTCGGCACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGC 1403
Qy 781 TGCCTGTCACATGCTGTCCTCCAGTGTGGCGGTGTGACAGCTTCAGCGCGCCTCAC 840
Db 1404 TGCCTGTCACATGCTGTCCTCCAGTGTGGCGGTGTGACAGCTTCAGCGCGCCTCAC 1463
Qy 841 CGGGTTACCTTCTCAGCCCTGACATCTGCCCTACACACTGGCCCTCCCTCTACCAACG 900
Db 1464 CGGGTTACCTTCTCAGCCCTGACATCTGCCCTACACACTGGCCCTCCCTCTACCAACG 1523
Qy 901 GGAGAAGCAGGTGTTCTTCCGCCAATACGAGGGGACACTGGAGGTGCTAGCAGTAGGA 960
Db 1524 GGAGAAGCAGGTGTTCTTCCGCCAATACGAGGGGACACTGGAGGTGCTAGCAGTAGGA 1583
Qy 961 CAGCTGATGACAGCTTCTGTCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTAATGAGCA 1020
Db 1584 CAGCTGATGACAGCTTCTGTCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTAATGAGCA 1643
Qy 1021 CGTGGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGGCTCTGCGGGGCTCTGC 1080
Db 1644 CGTGGGTCTGGAGGAGTGGCTGCTCCACCTCCACCGGCTCTGCGGGGCTCTGC 1703
Qy 1081 CTGTGATGTCCTCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG 1140
Db 1704 CTGTGATGTCCTCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG 1763
Qy 1141 CCGGGGATCTGCTTGGACCTCGGCATCTCGATAGTGCCTTCTGTGTCCTCCAGGTGGC 1200
Db 1764 CCGGGGATCTGCTTGGACCTCGGCATCTCGATAGTGCCTTCTGTGTCCTCCAGGTGGC 1823
Qy 1201 CCCATCCCTGTTTATGGGCTCCATGTCAGCTCAGCCAGTCTGTCTACGTGCTATATGGT 1260
Db 1824 CCCATCCCTGTTTATGGGCTCCATGTCAGCTCAGCCAGTCTGTCTACGTGCTATATGGT 1883
Qy 1261 GTCTCCCGAGGCTGGGTCTGGTCCCAATTACTTTTGTCTACACAGGTAGTATTGACAA 1320
Db 1884 GTCTCCCGAGGCTGGGTCTGGTCCCAATTACTTTTGTCTACACAGGTAGTATTGACAA 1943
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1944 GAGCGACTTGGCCAAATACTCA 1965

RESULT 5

US-09-838-785-1

; Sequence 1, Application US/09838785

; Patent No. US2002009455A1

; GENERAL INFORMATION:

; APPLICANT: Lau, Ted

; APPLICANT: Lin, Rick

; APPLICANT: Parkes, Debbie

; APPLICANT: Parry, Gordon

; APPLICANT: Schneider, Douglas

; APPLICANT: Steinbrecher, Renate

; APPLICANT: Van Heuit, Pam T

; APPLICANT: Wu, John

; TITLE OF INVENTION: DNA Encoding a No. US2002009455A1el PROST 03

; FILE REFERENCE: 51831AUSM1

; CURRENT APPLICATION NUMBER: US/09/838,785

; CURRENT FILING DATE: 2001-04-20

; PRIOR APPLICATION NUMBER: 60/200,065

; PRIOR FILING DATE: 2000-04-27

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 3320

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (282)..(1943)

US-09-838-785-1

Query Match 100.0%; Score 1342; DB 9; Length 3320;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCTGGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 596 GGCCTGGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTGGAGCTGGCACTGCT 655
Qy 61 CATCTTGGGCTGGGGCTGTGAGCTTCTGTGGCCAGGTGTCTTCACTTCACTGGAGGC 120
Db 656 CATCTTGGGCTGGGGCTGTGAGCTTCTGTGGCCAGGTGTCTTCACTTCACTGGAGGC 715
Qy 121 CTTGCTCTGTGACCTTTCGGGACCCGGACCACTGTGCCAGGCTACTTGTCTATGC 180
Db 716 CTTGCTCTGTGACCTTTCGGGACCCGGACCACTGTGCCAGGCTACTTGTCTATGC 775
Qy 181 CTTTATGATCAGTCTTGGGGCTGCTTGGGGTACTCTTCTGCTTGCCTTGCATTGACTGGGACAC 240
Db 776 CTTTATGATCAGTCTTGGGGCTGCTTGGGGTACTCTTCTGCTTGCCTTGCATTGACTGGGACAC 835
Qy 241 CAGTGCCTGGCCCCCTTACCTTGGGACCCAGGAGGAGTGCCTCTTTGGCCTGCTCACCT 300
Db 836 CAGTGCCTGGCCCCCTTACCTTGGGACCCAGGAGGAGTGCCTCTTTGGCCTGCTCACCT 895
Qy 301 CATCTTCTCAGCTGCTAGCAGCCACACTGCTGTGTGCTGAGGAGGAGCGCTGGGCCC 360
Db 896 CATCTTCTCAGCTGCTAGCAGCCACACTGCTGTGTGCTGAGGAGGAGCGCTGGGCCC 955
Qy 361 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTTGTGCCCCCACTGCTGTCCATGCGC 420
Db 956 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTTGTGCCCCCACTGCTGTCCATGCGC 1015
Qy 421 GGCCCGCTTGGCTTTCGGGAACCTTGGGGCCCTGCTTCCCGGCTGACACAGCTGTGTG 480
Db 1016 GGCCCGCTTGGCTTTCGGGAACCTTGGGGCCCTGCTTCCCGGCTGACACAGCTGTGTG 1075
Qy 481 CCGCATGCCCGCACCTGGCCGCTTTCGTGGCTGAGCTGTGACGTGGATGGCACT 540
Db 1076 CCGCATGCCCGCACCTGGCCGCTTTCGTGGCTGAGCTGTGACGTGGATGGCACT 1135
Qy 541 CATGACCTTACGCTGTTTACACGGATTTTCGTGGGCGAGGGGCTGTGACCGAGGCGTGCC 600

Db 1136 CATGACCTTACGCTGTTTACAGGATTTCTGGGCGAGGGCTGTACACAGGGCGTGCC 1195
Qy 601 CAGAGCTGAGCGGCGACCGAGGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCGAG 660
Db 1196 CAGAGCTGAGCGGCGACCGAGGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCGAG 1255
Qy 661 CTTGGGGCTGTTTCTCGAGTGGCCCATCTCCCTGGTCTTCTCTCTGGTCTATGGACCGGCT 720
Db 1256 CTTGGGGCTGTTTCTCGAGTGGCCCATCTCCCTGGTCTTCTCTCTGGTCTATGGACCGGCT 1315
Qy 721 GGTGAGGATTCGGGACCTGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 780
Db 1316 GGTGAGGATTCGGGACCTGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 1375
Qy 781 TSCCGGTGCCATCGCTGTGCCACAGTGTGGCGGTGGTGGACAGCTTCAGCGGCCCTCAC 840
Db 1376 TSCCGGTGCCATCGCTGTGCCACAGTGTGGCGGTGGTGGACAGCTTCAGCGGCCCTCAC 1435
Qy 841 CGGGTTACCTTCTCAGCGCTGCAGATCTGCGCTTACACACTGGCGCTCCCTCTACACCG 900
Db 1436 CGGGTTACCTTCTCAGCGCTGCAGATCTGCGCTTACACACTGGCGCTCCCTCTACACCG 1495
Qy 901 GGAGAGCAGGTGTTCTGCGCCCAATAACGAGGGGACACTGAGAGGTCTAGCAGTGAAGA 960
Db 1496 GGAGAGCAGGTGTTCTGCGCCCAATAACGAGGGGACACTGAGAGGTCTAGCAGTGAAGA 1555
Qy 961 CAGCGCTGATGACAGCTTCTGCGCAGGCGCTTAAGCTCGAGCTCCCTTCCCTATGGACA 1020
Db 1556 CAGCGCTGATGACAGCTTCTGCGCAGGCGCTTAAGCTCGAGCTCCCTTCCCTATGGACA 1615
Qy 1021 CTTGGGTGTGAGGACAGTGGCTCTCTCCACCTCCACCGCTCTGCGGGCGCTCTGC 1080
Db 1616 CTTGGGTGTGAGGACAGTGGCTCTCTCCACCTCCACCGCTCTGCGGGCGCTCTGC 1675
Qy 1081 CTGTGATGTCTCCGTAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1140
Db 1676 CTGTGATGTCTCCGTAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1735
Qy 1141 CCGGGGATCTGCGTGGACCTCGCCATCTCGATAGTGGCTTCTGCTGCTGCTGCTGCTGCT 1200
Db 1736 CCGGGGATCTGCGTGGACCTCGCCATCTCGATAGTGGCTTCTGCTGCTGCTGCTGCTGCT 1795
Qy 1201 CCCATCCCTGTTATGGGCTCCATGTTCCAGCTCAGCCAGTGTGTCACTGCTATATGGT 1260
Db 1796 CCCATCCCTGTTATGGGCTCCATGTTCCAGCTCAGCCAGTGTGTCACTGCTATATGGT 1855
Qy 1261 GTCTGCCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGGTAGTATTTGACAA 1320
Db 1856 GTCTGCCGAGGCTGGGTCTGGTGGCCATTTACTTTGCTACACAGGTAGTATTTGACAA 1915
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1916 GAGCGACTTGGCCAAATACTCA 1937

RESULT 6
US-10-936-626-21
; Sequence 21, Application US/10936626
; Publication No. US2005010664A1
; GENERAL INFORMATION:
; APPLICANT: Cairns, Belinda
; APPLICANT: Chen, Ruihuan
; APPLICANT: Frantz, Gretchen
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Koepfen, Hartmut
; APPLICANT: Phillips, Heidi S.
; APPLICANT: Polakie, Paul
; APPLICANT: Spencer, Susan D.
; APPLICANT: Smith, Victoria
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wu, Thomas D.
; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Compositions and Methods for the Diagnosis and
; TITLE OF INVENTION: Treatment of Tumor
; FILE REFERENCE: P5001R1P1
; CURRENT APPLICATION NUMBER: US/10/936,626
; CURRENT FILING DATE: 2004-09-08
; PRIOR APPLICATION NUMBER: US 10/872,991
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 10/872,972
; PRIOR FILING DATE: 2004-06-21
; PRIOR APPLICATION NUMBER: US 10/241,220
; PRIOR FILING DATE: 2002-09-11
; PRIOR APPLICATION NUMBER: US 10/177,488
; PRIOR FILING DATE: 2002-06-19
; PRIOR APPLICATION NUMBER: US 60/299,500
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: US 60/301,880
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/323,268
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US 60/557,116
; PRIOR FILING DATE: 2004-03-26
; PRIOR APPLICATION NUMBER: US 60/598,899
; PRIOR FILING DATE: 2004-08-04
; NUMBER OF SEQ ID NOS: 154
; SEQ ID NO 21
; LENGTH: 3332
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-936-626-21

Query Match 100.0%; Score 1342; DB 21; Length 3332;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGC CGGCTGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTTGAGCTGGACACTGCT 60
Db 604 GGC CGGCTGCTAGCAGGGCTGTGTGCCGGATCCAGGCCCTTGAGCTGGACACTGCT 663
Qy 61 CATCTCGGGCTGGGGCTGTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 120
Db 664 CATCTCGGGCTGGGGCTGTGGACTTCTGTGGCCAGGTGTCTTCACTCCACTGGAGGC 723
Qy 121 CTTCTCTGACCTTCTCCGGGACCCGGACCACTGTGGCAGGCCTACTCTGTCTATGC 180
Db 724 CTTCTCTGACCTTCTCCGGGACCCGGACCACTGTGGCAGGCCTACTCTGTCTATGC 783
Qy 181 CTTCTCTGACCTTCTGGGGCTGCTGGGCTACTCTCTGCTGCCATTGACTGGACAC 240
Db 784 CTTCTCTGACCTTCTGGGGCTGCTGGGCTACTCTCTGCTGCCATTGACTGGACAC 843
Qy 241 CAGTGCCTTGGCCCTTACCTGGGCACCCAGGAGGAGTGCCTCTTTGGCCTGTCCACCT 300
Db 844 CAGTGCCTTGGCCCTTACCTGGGCACCCAGGAGGAGTGCCTCTTTGGCCTGTCCACCT 903
Qy 301 CATCTTCTCACTGCGTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGGCGCTGGGCCC 360
Db 904 CATCTTCTCACTGCGTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGGCGCTGGGCCC 963
Qy 361 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTTGTGGCCCTACTGCTGTCCATGGCG 420
Db 964 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTTGTGGCCCTACTGCTGTCCATGGCG 1023
Qy 421 GGC CGGCTTGGCTTTCGGGAACCTGGGGCGCCCTGCTTCCCGGGCTGCACAGCTGTGCTG 480
Db 1024 GGC CGGCTTGGCTTTCGGGAACCTGGGGCGCCCTGCTTCCCGGGCTGCACAGCTGTGCTG 1083
Qy 481 CCGCATGCCCGCACCTGCGCGCGCTTTCGTGGCTGAGCTGTGAGCTGGATGGCACT 540
Db 1084 CCGCATGCCCGCACCTGCGCGCGCTTTCGTGGCTGAGCTGTGAGCTGGATGGCACT 1143
Qy 541 CATGACCTTACGCTGTTTACACGGATTTTCGTGGGCGAGGGCTGTACACAGGGCGTGCC 600
Db 1144 CATGACCTTACGCTGTTTACACGGATTTTCGTGGGCGAGGGCTGTACACAGGGCGTGCC 1203

Db 1144 CATGACCTTACGCTGTTTATACAGGATTTCTGGGCGAGGGGCTGTACCAAGGGCGTGCC 1203
Qy 601 CAGAGCTGAGCCGGGACCGAGGCGCGGAGACACTATGATGAAGCGTTTCGATGGGAG 660
Db 1204 CAGAGCTGAGCCGGGACCGAGGCGCGGAGACACTATGATGAAGCGTTTCGATGGGAG 1263
Qy 661 CTTGGGGCTGTTTCTTGAGTGCGCCATCTCCCTGGTCTTCTCTCTGGTCAATGACCGGCT 720
Db 1264 CTTGGGGCTGTTTCTTGAGTGCGCCATCTCCCTGGTCTTCTCTCTGGTCAATGACCGGCT 1323
Qy 721 GGTGACAGGATTCGGGACCTGAGAGAGTCTATTTTGGCCAGTGTTGGCAGCTTTCCTTGTGGC 780
Db 1324 GGTGACAGGATTCGGGACCTGAGAGAGTCTATTTTGGCCAGTGTTGGCAGCTTTCCTTGTGGC 1383
Qy 781 TGCCGGTGCCACATGCTGTCGCCACAGTGTTGGCCGTGTGTGACAGCTTCAGCGCGCCCTCAC 840
Db 1384 TGCCGGTGCCACATGCTGTCGCCACAGTGTTGGCCGTGTGTGACAGCTTCAGCGCGCCCTCAC 1443
Qy 841 CGGGTTTACCTTCTCAGCCCTGCAGATCCTGCGCCTACACACTGGGCTCCCTCTACACCG 900
Db 1444 CGGGTTTACCTTCTCAGCCCTGCAGATCCTGCGCCTACACACTGGGCTCCCTCTACACCG 1503
Qy 901 GGAGAGCAGGTGTTCTTGCCCAAAATACCGAGGGGACACTGAGAGTGCTAGCAGTGAGGA 960
Db 1504 GGAGAGCAGGTGTTCTTGCCCAAAATACCGAGGGGACACTGAGAGTGCTAGCAGTGAGGA 1563
Qy 961 CAGCCTGATGACAGCTTCTGCCAGGCCCTAAGCCTGAGCTCCCTTCCCTTAATGGACA 1020
Db 1564 CAGCCTGATGACAGCTTCTGCCAGGCCCTAAGCCTGAGCTCCCTTCCCTTAATGGACA 1623
Qy 1021 CGTGGGTGCTGAGGACAGTGCGCTCTCCACCTCCACCGCGCTCTGCGGGCCTCTGC 1080
Db 1624 CGTGGGTGCTGAGGACAGTGCGCTCTCCACCTCCACCGCGCTCTGCGGGCCTCTGC 1683
Qy 1081 CTGTGATGTTCCGTAAGTGTTGGTGGTGAGGCCACCGAGGCCAGGGTGGTTCCGGG 1140
Db 1684 CTGTGATGTTCCGTAAGTGTTGGTGGTGAGGCCACCGAGGCCAGGGTGGTTCCGGG 1743
Qy 1141 CCGGGGACATCGCTGGACCTCGCCATCTGGATAGTGCTTCTGCTGTTCCAGGTGC 1200
Db 1744 CCGGGGACATCGCTGGACCTCGCCATCTGGATAGTGCTTCTGCTGTTCCAGGTGC 1803
Qy 1201 CCCATCCCTGTTTATGGGCTCAATTTCCAGCTCAGCCAGTCTGTCACTGCTATATGTT 1260
Db 1804 CCCATCCCTGTTTATGGGCTCAATTTCCAGCTCAGCCAGTCTGTCACTGCTATATGTT 1863
Qy 1261 GTCTGCGGAGCCCTGGTCTGGTGGCCATTTACTTTGCTACAGGTAGTATTTGACAA 1320
Db 1864 GTCTGCGGAGCCCTGGTCTGGTGGCCATTTACTTTGCTACAGGTAGTATTTGACAA 1923
Qy 1321 GAGGACTTGGCCAAATCTCA 1342
Db 1924 GAGGACTTGGCCAAATCTCA 1945

RESULT 8
US-09-745-288-100
; Sequence 100 Application US/09745288
; Patent No. US20010018058A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.446D1
; CURRENT APPLICATION NUMBER: US/09/745,288
; CURRENT FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA

; ORGANISM: Homo sapien
US-09-745-288-100
Query Match 100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGCGGCTGGCTAGCAGGGCTGTGTGCCCGATCCAGGCCCTTGGAGCTGGCACTGCT 60
Db 598 GGGCGGCTGGCTAGCAGGGCTGTGTGCCCGATCCAGGCCCTTGGAGCTGGCACTGCT 657
Qy 61 CATCTGGGCGTGGGCTGTGGACTTCTGTGGCCAGGTGTCTCACTCCAGTGGAGGC 120
Db 658 CATCTGGGCGTGGGCTGTGGACTTCTGTGGCCAGGTGTCTCACTCCAGTGGAGGC 717
Qy 121 CTTGCTCTCTGACCTTCTCCGGGACCCGGACCACTGTGCCAGGCCTACTCTGTCTATGC 180
Db 718 CTTGCTCTCTGACCTTCTCCGGGACCCGGACCACTGTGCCAGGCCTACTCTGTCTATGC 777
Qy 181 CTTCATGATCAGTCTTGGGGGCTGCCTGGGCTACTCTCTGCTGCCATTGATGGGACAC 240
Db 778 CTTCATGATCAGTCTTGGGGGCTGCCTGGGCTACTCTCTGCTGCCATTGATGGGACAC 837
Qy 241 CAGTGCCCTGGCCCTTACTCTGGGACCCAGGAGAGTGCTCTTTGGGCTGTCTACCCCT 300
Db 838 CAGTGCCCTGGCCCTTACTCTGGGACCCAGGAGAGTGCTCTTTGGGCTGTCTACCCCT 897
Qy 301 CATCTTCTTCACTTGGCTAGCAGCCACACTGCTGTGGCTGAGGAGGAGCGCTGGGGCC 360
Db 898 CATCTTCTTCACTTGGCTAGCAGCCACACTGCTGTGGCTGAGGAGGAGCGCTGGGGCC 957
Qy 361 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTGTGGCCCACTGCTGTCCATGGCG 420
Db 958 CACGAGCCAGCAGAGGGCTGTGGGCCCTCTCTGTGGCCCACTGCTGTCCATGGCG 1017
Qy 421 GGGCGGCTGTGGCTTTCGGGAACCTTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGTG 480
Db 1018 GGGCGGCTGTGGCTTTCGGGAACCTTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGTG 1077
Qy 481 CCGCATCCCGCGACCTGCGCGGCTTTCGTGGCTGAGCTGTGAGCTGGATGGCACT 540
Db 1078 CCGCATCCCGCGACCTGCGCGGCTTTCGTGGCTGAGCTGTGAGCTGGATGGCACT 1137
Qy 541 CATGACCTTCACTGCTGTTTACAGCGATTTCTGGGCGAGGGGCTGTACAGGGCGTGCC 600
Db 1138 CATGACCTTCACTGCTGTTTACAGCGATTTCTGGGCGAGGGGCTGTACAGGGCGTGCC 1197
Qy 601 CAGAGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGTTTCGATGGGAG 660
Db 1198 CAGAGCTGAGCCGGGACCCGAGGCCCGGAGACACTATGATGAAGCGTTTCGATGGGAG 1257
Qy 661 CTTGGGCTGTCTGTCAGTGCGGCACTCCCTGGTCTTCTCTCTGCTGATGAGACCGGCT 720
Db 1258 CTTGGGCTGTCTGTCAGTGCGGCACTCCCTGGTCTTCTCTCTGCTGATGAGACCGGCT 1317
Qy 721 GGTGACAGGATTCGGGCACTTCGAGCAGTCTATTTTGGCCAGTGTTGGCAGCTTTCCTTGTGGC 780
Db 1318 GGTGACAGGATTCGGGCACTTCGAGCAGTCTATTTTGGCCAGTGTTGGCAGCTTTCCTTGTGGC 1377
Qy 781 TGCCGGTGCCACATGCTGTTCCACAGTGTTGGCCGTGGTGAACAGTTTCAGCGCGCCCTCAC 840
Db 1378 TGCCGGTGCCACATGCTGTTCCACAGTGTTGGCCGTGGTGAACAGTTTCAGCGCGCCCTCAC 1437
Qy 841 CGGGTTCACTTCTCAGCCCTGCAGATCTCCCTTACACACTGGCCTCCCTCTACACCG 900
Db 1438 CGGGTTCACTTCTCAGCCCTGCAGATCTCCCTTACACACTGGCCTCCCTCTACACCG 1497
Qy 901 GGAGAGCAGGTGTTCTTGCCCAAAATACCGAGGGGACACTGGAGGTGTCTAGCAGTGAGGA 960
Db 1498 GGAGAGCAGGTGTTCTTGCCCAAAATACCGAGGGGACACTGGAGGTGTCTAGCAGTGAGGA 1557
Qy 961 CAGCCTGATGACAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACA 1020

Db 1558 CAGCCTGATGACACAGCTTCTGCGCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTAATGGACA 1617
Qy 1021 CGTGGGTGCTGGAGCAGTGCCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1080
Db 1618 CGTGGGTGCTGGAGCAGTGCCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1677
Qy 1081 CTGTGATGTCTCCGTACGTGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGG 1140
Db 1678 CTGTGATGTCTCCGTACGTGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGG 1737
Qy 1141 CCGGGGCACTGCGCTGGACCTCGGCATCTGGATAGTGCCTTCTGCTGTCCCAAGTGGC 1200
Db 1738 CCGGGGCACTGCGCTGGACCTCGGCATCTGGATAGTGCCTTCTGCTGTCCCAAGTGGC 1797
Qy 1201 CCCATCCCTGTTTATGGGCTCCATTGTCAGCTCAGCCAGTCTGTCACTGCTATATGGT 1260
Db 1798 CCCATCCCTGTTTATGGGCTCCATTGTCAGCTCAGCCAGTCTGTCACTGCTATATGGT 1857
Qy 1261 GTCTGCCGCGAGGCTGGGTCTGGTCGCCATTATCTTTGTACACAGGTAGTATTGGACAA 1320
Db 1958 GTCTGCCGCGAGGCTGGGTCTGGTCGCCATTATCTTTGTACACAGGTAGTATTGGACAA 1917
Qy 1321 GAGCGACTTGGCCAAATCTCA 1342
Db 1918 GAGCGACTTGGCCAAATCTCA 1939

RESULT 9

US-09-759-143-110
; Sequence 110, Application US/09759143
; Patent No. US200202248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-110

Query Match 100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCGCGGCTGGCTAGCAGGGCTGCTGTGCCCGATCCAGGCGCTCGAGCTGGCACTGCT 60
Db 598 GCGCGGCTGGCTAGCAGGGCTGCTGTGCCCGATCCAGGCGCTCGAGCTGGCACTGCT 657
Qy 61 CATCTGGGCGTGGGCTGCTGGACTTCTGTGGCCAGGTGTGCTCACTCCACTGGAGGC 120
Db 658 CATCTGGGCGTGGGCTGCTGGACTTCTGTGGCCAGGTGTGCTCACTCCACTGGAGGC 717

Qy 121 CTTGCTCTGAGACTTCTTCGGGACCCGGACCACTGTGCGCAGGCGCTACTCTGTCTATGC 180
Db 718 CTTGCTCTGAGACTTCTTCGGGACCCGGACCACTGTGCGCAGGCGCTACTCTGTCTATGC 777
Qy 181 CTTTCATGATCAGTCTTGGGGGCTGCTGCGGTACCTCTGCTGCGCATTTGACATGGGACAC 240
Db 778 CTTTCATGATCAGTCTTGGGGGCTGCTGCGGTACCTCTGCTGCGCATTTGACATGGGACAC 837
Qy 241 CAGTGGCCTGGCCCCCTTACCTGGGACCCAGGAGGAGTGCCTCTTTGGCCTGCTCACCCCT 300
Db 838 CAGTGGCCTGGCCCCCTTACCTGGGACCCAGGAGGAGTGCCTCTTTGGCCTGCTCACCCCT 897
Qy 301 CATCTTCTCCTCAGCTGCGTAGCAGCACACTGCTGGTGGCTGAGGAGGACAGCGCTGGGCGCC 360
Db 898 CATCTTCTCCTCAGCTGCGTAGCAGCACACTGCTGGTGGCTGAGGAGGACAGCGCTGGGCGCC 957
Qy 361 CACGAGCCAGCAGAAAGGGCTGTGCGCCCCCTCTTGTGCGCCCACTGTGTGCATGCCG 420
Db 958 CACGAGCCAGCAGAAAGGGCTGTGCGCCCCCTCTTGTGCGCCCACTGTGTGCATGCCG 1017
Qy 421 GGGCGGCTTGGCTTTCGGGAACTTGGGCGGCTGCTTCCCGGGCTGCACAGCTGTGCTG 480
Db 1018 GGGCGGCTTGGCTTTCGGGAACTTGGGCGGCTGCTTCCCGGGCTGCACAGCTGTGCTG 1077
Qy 481 CCGCATGCCCCCGCACCTGCGCGCGCTCTTCTGTGGCTGAGCTGTGAGCTGGATGGCACT 540
Db 1078 CCGCATGCCCCCGCACCTGCGCGCGCTCTTCTGTGGCTGAGCTGTGAGCTGGATGGCACT 1137
Qy 541 CATGACCTTCACTGCTGTTTACACGATTTCTGGGCGAGGGCTGTACAGGCGCTGCC 600
Db 1138 CATGACCTTCACTGCTGTTTACACGATTTCTGGGCGAGGGCTGTACAGGCGCTGCC 1197
Qy 601 CAGAGCTGAGCCGGGACCCGAGAGACACTATGATGAAGGCGTTCCGATGGGCGAG 660
Db 1198 CAGAGCTGAGCCGGGACCCGAGAGACACTATGATGAAGGCGTTCCGATGGGCGAG 1257
Qy 661 CTTGGGGCTGTTCTCGCAGTGCCTCATCTCCCTGCTTCTCTGTGCTATGAGACCGGCT 720
Db 1258 CTTGGGGCTGTTCTCGCAGTGCCTCATCTCCCTGGTCTTCTCTGTGCTATGAGACCGGCT 1317
Qy 721 GGTGACGCGATTCCGCACTCGAGCAGTCTAATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
Db 1318 GGTGACGCGATTCCGCACTCGAGCAGTCTAATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377
Qy 781 TGGCGGTGCCACATGCTGTCCACAGTGTGGCGGTGGTGACAGCTTCAGCGCGGCTCAC 840
Db 1378 TGGCGGTGCCACATGCTGTCCACAGTGTGGCGGTGGTGACAGCTTCAGCGCGGCTCAC 1437
Qy 841 CCGGTTTCACTTCTCAGCCCTGCAGATCTGCGCTTACACACTGCGCTTCCCTTACCACCG 900
Db 1438 CCGGTTTCACTTCTCAGCCCTGCAGATCTGCGCTTACACACTGCGCTTCCCTTACCACCG 1497
Qy 901 GGAGAGCAGGTGTTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGA 960
Db 1498 GGAGAGCAGGTGTTCTCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGA 1557
Qy 961 CAGCCTGATGACAGCTTCTGCGCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTAATGACACA 1020
Db 1558 CAGCCTGATGACAGCTTCTGCGCAGGCGCTTAAGCCTGGAGCTCCCTTCCCTAATGACACA 1617
Qy 1021 CTTGGGTGCTGGAGGACAGTGGCGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCG 1080
Db 1618 CTTGGGTGCTGGAGGACAGTGGCGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCG 1677
Qy 1081 CTGTGATGTCTCCGTACGTGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGG 1140
Db 1678 CTGTGATGTCTCCGTACGTGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCGGGG 1737
Qy 1141 CCGGGGCACTGCGCTGGACCTCGGCATCTGGATAGTGCCTTCTGCTGTCCCAAGTGGC 1200
Db 1738 CCGGGGCACTGCGCTGGACCTCGGCATCTGGATAGTGCCTTCTGCTGTCCCAAGTGGC 1797

```

QY 1201 CCCATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTGTGTCACTGGCTATATGGT 1260
Db 1798 CCCATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTGTGTCACTGGCTATATGGT 1857
QY 1261 GTCTGCCGAGGCTGGGCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAA 1320
Db 1858 GTCTGCCGAGGCTGGGCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAA 1917
QY 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939

RESULT 10
US-09-780-669-110
; Sequence 110, Application US/09780669
; Patent No. US2002005197A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-780-669-110

Query Match 100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGCCTGGCTAGCAGGCTGCTGTGCCGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 598 GGCCTGGCTAGCAGGCTGCTGTGCCGATCCAGGCCCTGGAGCTGGCACTGCT 657
QY 61 CATCTGGGCGTGGGCTGTGGACTTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 120
Db 658 CATCTGGGCGTGGGCTGTGGACTTGTGGCCAGGTGTGCTTCACTCCACTGGAGGC 717
QY 121 CTGTCTCTGACCTCTTCGCGGACCCGACCACTGTGCCAGGCTACTCTGTCTATGC 180
Db 718 CTGTCTCTGACCTCTTCGCGGACCCGACCACTGTGCCAGGCTACTCTGTCTATGC 777
QY 181 CTTCTATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTGACTGGGACAC 240
Db 778 CTTCTATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTGACTGGGACAC 837
QY 241 CAGTGGCTGGCCCCCTTACCTGGGACCCAGGAGAGTGCCTCTTTGGCTGCTCACCT 300

```

```

Db 838 CAGTGGCTGGCCCCCTTACCTGGGCA CCCAGGAGAGTGCCTCTTTTGGCCTGTCTCACCC 897
QY 301 CATCTTCTCACTCCCTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGGCTGGGGCC 360
Db 898 CATCTTCTCACTCCCTAGCAGCCACACTGCTGGTGGCTGAGGAGGAGGCTGGGGCC 957
QY 361 CACGAGCCAGCAGAAAGGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGTCCATGCG 420
Db 958 CACGAGCCAGCAGAAAGGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGTCCATGCG 1017
QY 421 GGGCCGCTTGGCTTTCGGGAACCTGGGGGCGCTGCTTCCCGGCTGACCAAGCTGTGCTG 480
Db 1018 GGGCCGCTTGGCTTTCGGGAACCTGGGGGCGCTGCTTCCCGGCTGACCAAGCTGTGCTG 1077
QY 481 CCGCATGCCCGCACCTCGCGCGGCTTTCGTGGCTGAGCTGTGCACTGGATGGCACT 540
Db 1078 CCGCATGCCCGCACCTCGCGCGGCTTTCGTGGCTGAGCTGTGCACTGGATGGCACT 1137
QY 541 CATGACCTTCACTGCTGTTTACCGGATTTTCGTGGGCGAGGGCTGTACCAAGGGCTGCC 600
Db 1138 CATGACCTTCACTGCTGTTTACCGGATTTTCGTGGGCGAGGGCTGTACCAAGGGCTGCC 1197
QY 601 CAGAGCTGAGCGGGGACCCGAGGCCCGGAGACACTATGATGAAGCGTTTCGATGGGCGAG 660
Db 1198 CAGAGCTGAGCGGGGACCCGAGGCCCGGAGACACTATGATGAAGCGTTTCGATGGGCGAG 1257
QY 661 CCTGGGGCTGTTTCTGCACTGCGGCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCT 720
Db 1258 CCTGGGGCTGTTTCTGCACTGCGGCATCTCCCTGGTCTTCTCTGTGTCATGGACCGGCT 1317
QY 721 GGTGACGCGATTCGGGCTCGAGCAGTCTATTTGGCCAGTGTGGAGCTTTTCCCTGTGGC 780
Db 1318 GGTGACGCGATTCGGGCTCGAGCAGTCTATTTGGCCAGTGTGGAGCTTTTCCCTGTGGC 1377
QY 781 TGCCGGTGCCACATGCTGTCACAGTGTGGCGTGGTGACAGCTTCAGCGCGCCCTCAC 840
Db 1378 TGCCGGTGCCACATGCTGTCACAGTGTGGCGTGGTGACAGCTTCAGCGCGCCCTCAC 1437
QY 841 CGGGTTACCTTCTCAGCCCTCGAGATCTGCCCTTACACACTGGCCTCCCTCTACACCG 900
Db 1438 CGGGTTACCTTCTCAGCCCTCGAGATCTGCCCTTACACACTGGCCTCCCTCTACACCG 1497
QY 901 GGAGAAGCAGGTGTTCTGCCAAATACCGAGGGGACACTGGAGGTGTACAGTGAGGA 960
Db 1498 GGAGAAGCAGGTGTTCTGCCAAATACCGAGGGGACACTGGAGGTGTACAGTGAGGA 1557
QY 961 CAGCTGATGACAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACA 1020
Db 1558 CAGCTGATGACAGCTTCTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACA 1617
QY 1021 CGTGGGTGCTGGAGGCACTGGCCTGCCACCTCCACCCGCGCTCTGCGGGGCTCTGCG 1080
Db 1618 CGTGGGTGCTGGAGGCACTGGCCTGCCACCTCCACCCGCGCTCTGCGGGGCTCTGCG 1677
QY 1081 CTGTGATGTCTCCGTAAGTGTGGTGGGTGAGCCACCCAGGCGAGGTTGTTCCGGG 1140
Db 1678 CTGTGATGTCTCCGTAAGTGTGGTGGGTGAGCCACCCAGGCGAGGTTGTTCCGGG 1737
QY 1141 CCGGGGCACTGCTGGACCTCGGCATCTCGATAGTGCCTTCTGCTGTGCCAGGTGCG 1200
Db 1738 CCGGGGCACTGCTGGACCTCGGCATCTCGATAGTGCCTTCTGCTGTGCCAGGTGCG 1797
QY 1201 CCCATCCCTGTTTATGGGCTCCATTGTGCCAGTGTGTGCTGCTGCTATATGGT 1260
Db 1798 CCCATCCCTGTTTATGGGCTCCATTGTGCCAGTGTGTGCTGCTGCTATATGGT 1857
QY 1261 GTCTGCCGAGGCTGGGTCTGGCTGGCCATTACTTTGCTACACAGGTAGTATTGACAA 1320
Db 1858 GTCTGCCGAGGCTGGGTCTGGCTGGCCATTACTTTGCTACACAGGTAGTATTGACAA 1917
QY 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939

```


RESULT 11

US-030-606-110
; Sequence 110, Application US/09030606
; Patent No. US2002081580A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,606
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.428C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-030-606-110

Query Match 100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GCGCGCTGGCTAGCAGGGCTGCTGCGCGATCCAGGCCCTGGAGCTGGCACTGCT 60
Db 598 GCGCGCTGGCTAGCAGGGCTGCTGCGCGATCCAGGCCCTGGAGCTGGCACTGCT 657
Qy 61 CATCTGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCCAGGAGC 120
Db 658 CATCTGGCGTGGGGCTGCTGGACTTCTGTGGCCAGGTGTCTTCACTCCAGGAGC 717
Qy 121 CCTGCTCTACCTCTTCCGGGACCCGGACCACTGTGCCAGGCTACTCTGTATGC 180
Db 718 CCTGCTCTACCTCTTCCGGGACCCGGACCACTGTGCCAGGCTACTCTGTATGC 777
Qy 181 CTTTATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCAATTGACTGGAC 240
Db 778 CTTTATGATCAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCAATTGACTGGAC 837
Qy 241 CAGTGCCTGGCCCCCTTACTCTGGGACCCAGGAGAGTGCCTCTTTGGCCCTGCTCACCT 300
Db 838 CAGTGCCTGGCCCCCTTACTCTGGGACCCAGGAGAGTGCCTCTTTGGCCCTGCTCACCT 897
Qy 301 CATCTTCTCAGCTCGTAGGACCCACTGCTGTGTGGCTGAGGAGGAGGCTGGGGCC 360
Db 898 CATCTTCTCAGCTCGTAGGACCCACTGCTGTGTGGCTGAGGAGGAGGCTGGGGCC 957

RESULT 12

US-09-822-827-110
; Sequence 110, Application US/09822827
; Patent No. US2002081680A1

Qy 361 CACGAGCCAGCAGAGGGCTGTGCGCCCTCTCTGTGCGCCCACTGCTGTCCATGCCG 420
Db 958 CACGAGCCAGCAGAGGGCTGTGCGCCCTCTCTGTGCGCCCACTGCTGTCCATGCCG 1017
Qy 421 GCGCCGCTTGGCTTTCCGGAACCTTGGCGGCTCTGCTTCCCGGCTGACACAGCTGTGCTG 480
Db 1018 GCGCCGCTTGGCTTTCCGGAACCTTGGCGGCTCTGCTTCCCGGCTGACACAGCTGTGCTG 1077
Qy 481 CCGCATCCCGCGCACCTGCGCGGCTTCTGTGGCTGAGCTGTGAGCTGCATGGCACT 540
Db 1078 CCGCATCCCGCGCACCTGCGCGGCTTCTGTGGCTGAGCTGTGAGCTGCATGGCACT 1137
Qy 541 CATGACCTTCACTGCTTTTACACGATTTCTGTGGCGAGGGCTGTACACAGGCGCTGCC 600
Db 1138 CATGACCTTCACTGCTTTTACACGATTTCTGTGGCGAGGGCTGTACACAGGCGCTGCC 1197
Qy 601 CAGAGCTGAGCGCGGACCGAGGCCCGGAGACACTATGATGAAGGCGTTGGATGGGAG 660
Db 1198 CAGAGCTGAGCGCGGACCGAGGCCCGGAGACACTATGATGAAGGCGTTGGATGGGAG 1257
Qy 661 CTTGGGCTGCTTCTGCACTGCGCATCTCCCTGGCTTCTCTCTGTGTCATGGACCGCT 720
Db 1258 CTTGGGCTGCTTCTGCACTGCGCATCTCCCTGGCTTCTCTCTGTGTCATGGACCGCT 1317
Qy 721 GGTGCAGCGATTCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 780
Db 1318 GGTGCAGCGATTCGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 1377
Qy 781 TGGCGGTGCCACATGCTCTGCCACAGTGTGGCGCTGTGACAGCTTCAGCGCGCTCAC 840
Db 1378 TGGCGGTGCCACATGCTCTGCCACAGTGTGGCGCTGTGACAGCTTCAGCGCGCTCAC 1437
Qy 841 CGGTTTCACTTCTCAGCCCTGCAGATCTGCGCTCACACTGCGCTCCCTCTTACCACCG 900
Db 1438 CGGTTTCACTTCTCAGCCCTGCAGATCTGCGCTCACACTGCGCTCCCTCTTACCACCG 1497
Qy 901 GGAGAGCAGGTGTCTGCGCCCAATAACGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 960
Db 1498 GGAGAGCAGGTGTCTGCGCCCAATAACGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 1557
Qy 961 CAGCTGATGACACAGCTTCTGCGAGGCCCTTAGCCTGGAGCTCCCTTCCCTATAGACA 1020
Db 1558 CAGCTGATGACACAGCTTCTGCGAGGCCCTTAGCCTGGAGCTCCCTTCCCTATAGACA 1617
Qy 1021 CTTGGGTGCTGGAGGAGTGCCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1080
Db 1618 CTTGGGTGCTGGAGGAGTGCCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGC 1677
Qy 1081 CTGTGATGCTCTCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG 1140
Db 1678 CTGTGATGCTCTCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG 1737
Qy 1141 CCGGGGATCTGCTGCACTTCCGATCTCGCATCTGAGTGGCTTCTGCTGTCCAGGTGGC 1200
Db 1738 CCGGGGATCTGCTGCACTTCCGATCTCGCATCTGAGTGGCTTCTGCTGTCCAGGTGGC 1797
Qy 1201 CCAATCCCTGTTTATGGGCTCCATTGTCAGCTCAGCCAGTCTGCTCACTGCTATATGGT 1260
Db 1798 CCAATCCCTGTTTATGGGCTCCATTGTCAGCTCAGCCAGTCTGCTCACTGCTATATGGT 1857
Qy 1261 GTCTGCGCAGGCTGGGCTGGTCTGCGCATTTACTTTGCTACACAGGTAGTATTGACAA 1320
Db 1858 GTCTGCGCAGGCTGGGCTGGTCTGCGCATTTACTTTGCTACACAGGTAGTATTGACAA 1917
Qy 1321 GAGCAGCTTGGCCAAATACTCA 1342
Db 1918 GAGCAGCTTGGCCAAATACTCA 1939

```
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-822-827-110

Query Match      100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGC CGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCAGGCCCTCTGGAGCTGGCACTGCT 60
Db 598 GGC CGGCTGGCTAGCAGGGCTGCTGTGCCCGGATCCAGGCCCTCTGGAGCTGGCACTGCT 657
Qy 61 CATCTGGGGCTGGGGCTGCTGGAGCTTCTGTGGCCAGGTGTCTTCACTCCAGTGGAGGC 120
Db 658 CATCTGGGGCTGGGGCTGCTGGAGCTTCTGTGGCCAGGTGTCTTCACTCCAGTGGAGGC 717
Qy 121 CTTGATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTCGCAATGACTGGGAC 240
Db 778 CTTGATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCCATTCGCAATGACTGGGAC 837
Qy 241 CAGTGGCTGGCCCCCTACCTGGGACCCAGAGAGAGTGTCTTTGGGCTGCTCACCCT 300
Db 838 CAGTGGCTGGCCCCCTACCTGGGACCCAGAGAGAGTGTCTTTGGGCTGCTCACCCT 897
Qy 301 CATCTTCTCTACCTGCTAGCAGCACACTGCTGTGGCTGAGGAGGAGCGCTGGGGCC 360
Db 898 CATCTTCTCTACCTGCTAGCAGCACACTGCTGTGGCTGAGGAGGAGCGCTGGGGCC 957
Qy 361 CACGAGCCAGCAGAGGGCTGTGGCCCCCTCTTGTTCGCCCACTGCTGTCCATGCGG 420
Db 958 CACGAGCCAGCAGAGGGCTGTGGCCCCCTCTTGTTCGCCCACTGCTGTCCATGCGG 1017
Qy 421 GGC CGGCTTGGCTTTCGGGAACCTGGGGCCCTGCTTCCCGGCTGCAACGAGCTGTGCTG 480
Db 1018 GGC CGGCTTGGCTTTCGGGAACCTGGGGCCCTGCTTCCCGGCTGCAACGAGCTGTGCTG 1077
Qy 481 CGCATGCCCGCACCTCGCGCGGCTCTTGTGTGCTGAGCTGTGCACTGGATGGCACT 540
Db 1078 CGCATGCCCGCACCTCGCGCGGCTCTTGTGTGCTGAGCTGTGCACTGGATGGCACT 1137
Qy 541 CATGACCTTACGCTGTTTACACGGATTTCTGTGGCGAGGGGCTGTACAGGGCGTGCC 600
Db 1138 CATGACCTTACGCTGTTTACACGGATTTCTGTGGCGAGGGGCTGTACAGGGCGTGCC 1197
Qy 601 CAGACTGAGCCGGGACCGAGGCCCGGAGACACTATGATGAGCGTTCCGATGGGAG 660
Db 1198 CAGACTGAGCCGGGACCGAGGCCCGGAGACACTATGATGAGCGTTCCGATGGGAG 1257
Qy 661 CTTGGGGCTGTTCTGCACTGCGGCTCTCTCCCTGCTTCTCTGCTGATGAGCGGCT 720
Db 1258 CTTGGGGCTGTTCTGCACTGCGGCTCTCTCCCTGCTTCTCTGCTGATGAGCGGCT 1317
Qy 721 GGTGACGAGATTCGCACTCGAGAGTCTATTTTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
Db 1318 GGTGACGAGATTCGCACTCGAGAGTCTATTTTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377
Qy 781 TGCCGGTGGCAGTGGCTGCTCCACAGTGTGGCCGTGGTGAAGCTTTCAGCGGCCCTCAC 840
```

```
Db 1378 TGCCGGTGGCAGATGCGCTGTCTCCACAGTGTGGCCGTGGTGAACAGCTTTCAGCGCGCCCTCAC 1437
Qy 841 CGGCTTACACCTTCTCAGCGCTGCAGATCTCTGCCCTTACACACTGCGCTCTCTACCCAG 900
Db 1438 CGGCTTACACCTTCTCAGCGCTGCAGATCTCTGCCCTTACACACTGCGCTCTCTACCCAG 1497
Qy 901 GGAGAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 960
Db 1498 GGAGAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGA 1557
Qy 961 CAGCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTTAATGACA 1020
Db 1558 CAGCTGATGACCAAGCTTCTGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCCTTAATGACA 1617
Qy 1021 CGTGGGTGCTGGAGGAGTGGCTGCTCCCACTCCAGCCGCTCTGCGGGGCTCTTGC 1080
Db 1618 CGTGGGTGCTGGAGGAGTGGCTGCTCCCACTCCAGCCGCTCTGCGGGGCTCTTGC 1677
Qy 1081 CTGTGATGTCTCCCTACGTGTGTGGGTGAGCCCAACGAGGCCAGGGTGGTTCCGGG 1140
Db 1678 CTGTGATGTCTCCCTACGTGTGTGGGTGAGCCCAACGAGGCCAGGGTGGTTCCGGG 1737
Qy 1141 CCGGGGATCTGCTGGACCTCGCATCTCGGATGAGTGCCTTCTGCTGCCAGGTGCG 1200
Db 1738 CCGGGGATCTGCTGGACCTCGCATCTCGGATGAGTGCCTTCTGCTGCCAGGTGCG 1797
Qy 1201 CCATCCCTGTTTATGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCTATATGCT 1260
Db 1798 CCATCCCTGTTTATGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCTATATGCT 1857
Qy 1261 GTTCGCGCAGGCTGGGTCTGTGGCCATTTACTTTGTGTACACAGGTAGTTTGTGACAA 1320
Db 1858 GTTCGCGCAGGCTGGGTCTGTGGCCATTTACTTTGTGTACACAGGTAGTTTGTGACAA 1917
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939

RESULT 13
US-09-115-453-110
; Sequence 110, Application US/09115453B
; Patent No. US2002090372A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-115-453-110

Query Match      100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGC CGGCTGGCTAGCAGGGCTGTGTGCCCGGATCCAGGCCCTCTGGAGCTGGCACTGCT 60
Db 598 GGC CGGCTGGCTAGCAGGGCTGTGTGCCCGGATCCAGGCCCTCTGGAGCTGGCACTGCT 657
Qy 61 CATCTGGGGCTGGGGCTGCTGGAGCTTCTGTGGCCAGGTGTCTTCACTCCAGTGGAGGC 120
Db 658 CATCTGGGGCTGGGGCTGCTGGAGCTTCTGTGGCCAGGTGTCTTCACTCCAGTGGAGGC 717
Qy 121 CTTGCTCTGACCTTCTCCGAGACCCGAGACCACTGTCCAGGGCTACTCTGTCTATGC 180
```

Db 718 CCTGCTCTGACCTTTCCGGGACCCGAGACCACTGTGCCAGGCTACTCTGTATGC 777
Qy 181 CTTATGATAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCCATTGACTGGGAC 240
Db 778 CTTATGATAGTCTTGGGGCTGCTGGGCTACTCTCTGCTGCTGCCATTGACTGGGAC 837
Qy 241 CAGTGCCCTGGCCCTTACCTTGGGACCCAGAGAGTGCCTCTTTGGCCTGTCTCACCC 300
Db 838 CAGTGCCCTGGCCCTTACCTTGGGACCCAGAGAGTGCCTCTTTGGCCTGTCTCACCC 897
Qy 301 CATCTTCTTACCTTGTAGAGGACCACTCTCTGTGTGCTGAGAGGAGGCTGGGGCC 360
Db 898 CATCTTCTTACCTTGTAGAGGACCACTCTCTGTGTGCTGAGAGGAGGCTGGGGCC 957
Qy 361 CACGAGCCAGAGAGGCTGTGGCCCTCTTGTGCGCCCACTGTCTGCATGCGC 420
Db 958 CACGAGCCAGAGAGGCTGTGGCCCTCTTGTGCGCCCACTGTCTGCATGCGC 1017
Qy 421 GGCCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGTCTCCCGGCTGCACAGCTGTGCTG 480
Db 1018 GGCCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGTCTCCCGGCTGCACAGCTGTGCTG 1077
Qy 481 CCGATGCCCCGACCTGCGCCGCTCTTGTGTGCTGAGCTGTGAGCTGGAGTGGCACT 540
Db 1078 CCGATGCCCCGACCTGCGCCGCTCTTGTGTGCTGAGCTGTGAGCTGGAGTGGCACT 1137
Qy 541 CATGACCTTACGCTGTTTACCGGATTTCTGGGCGAGGGCTGTACAGGGCGCTGCC 600
Db 1138 CATGACCTTACGCTGTTTACCGGATTTCTGGGCGAGGGCTGTACAGGGCGCTGCC 1197
Qy 601 CAGAGCTGAGCCGGGACCGAGGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCG 660
Db 1198 CAGAGCTGAGCCGGGACCGAGGCGCGGAGACACTATGATGAAGCGTTCCGATGGGCG 1257
Qy 661 CCTGGGGCTGTTCTGAGTGGCGCACTCTCCCTGTCTTCTCTGTGTCATGAGACCGGCT 720
Db 1258 CCTGGGGCTGTTCTGAGTGGCGCACTCTCCCTGTCTTCTCTGTGTCATGAGACCGGCT 1317
Qy 721 GGTGAGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGGCAGCTTCCCTGTGGC 780
Db 1318 GGTGAGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGGCAGCTTCCCTGTGGC 1377
Qy 781 TGGCGGTGCCATATGCTTCTCCAGTGTGGCGCTGTGTGACAGCTTCAGCGCGCCCTCAC 840
Db 1378 TGGCGGTGCCATATGCTTCTCCAGTGTGGCGCTGTGTGACAGCTTCAGCGCGCCCTCAC 1437
Qy 841 CGGTTTACCTTCTCAGCCCTGCAAGTCTTCCCTTACACATGTGGCTTCCCTTACCAACG 900
Db 1438 CGGTTTACCTTCTCAGCCCTGCAAGTCTTCCCTTACACATGTGGCTTCCCTTACCAACG 1497
Qy 901 GGAGAGCAGGTTCCTGCGCCCAATACCGAGGGGACACTGAGGTGCTAGCAGTGA 960
Db 1498 GGAGAGCAGGTTCCTGCGCCCAATACCGAGGGGACACTGAGGTGCTAGCAGTGA 1557
Qy 961 CAGCTGATGACCAAGCTTCTGCGCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTTAATGGA 1020
Db 1558 CAGCTGATGACCAAGCTTCTGCGCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTTAATGGA 1617
Qy 1021 CGTGGGTGCTGGAGCAGTGTGCTTCCCACTTCCAGCGCTGTGTGGGGGCTCTG 1080
Db 1618 CGTGGGTGCTGGAGCAGTGTGCTTCCCACTTCCAGCGCTGTGTGGGGGCTCTG 1677
Qy 1081 CTGTGATCTTCCGTACCTGTGTGGGTGAGCCCAAGGCGGAGGCTGGTTCGGG 1140
Db 1678 CTGTGATCTTCCGTACCTGTGTGGGTGAGCCCAAGGCGGAGGCTGGTTCGGG 1737
Qy 1141 CCGGGCATCTGCTTGGACCTCGCCATCTTGTGATAGTCCCTTCTGTGCTGCCAGGTGGC 1200
Db 1738 CCGGGCATCTGCTTGGACCTCGCCATCTTGTGATAGTCCCTTCTGTGCTGCCAGGTGGC 1797
Qy 1201 CCCATCCCTGTTTATGGGCTCCATGTTCCAGCTCAGCCAGTCTGTCTGCTCTATATGGT 1260
Db 1798 CCCATCCCTGTTTATGGGCTCCATGTTCCAGCTCAGCCAGTCTGTCTGCTCTATATGGT 1857

Qy 1261 GTCTGCCGAGGCTGGGTCTGGTGCCTATTACTTTGTACACAGGTAGTATTGACAA 1320
Db 1858 GTCTGCCGAGGCTGGGTCTGGTGCCTATTACTTTGTACACAGGTAGTATTGACAA 1917
Qy 1321 GAGGACTTGGCCAAATACTCA 1342
Db 1918 GAGGACTTGGCCAAATACTCA 1939
RESULT 14
US-09-232-880-110
; Sequence 110, Application US/09232880
; Publication No. US20020182596A1
; GENERAL INFORMATION:
; APPLICANT: Xu Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Micham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C6
; CURRENT APPLICATION NUMBER: US/09/232,880
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-232-880-110
Query Match 100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGCCGGCTGTGTAGAGGCTGTGTGCCGATCCAGGCCCTTGAGCTGGCACTGCT 60
Db 598 GGCCGGCTGTGTAGAGGCTGTGTGCCGATCCAGGCCCTTGAGCTGGCACTGCT 657
Qy 61 CATCTCTGGGCTGGGCTGTGACTTCTGTGGCCAGGTGTCTCACTCCACTGGAGGC 120
Db 658 CATCTCTGGGCTGGGCTGTGACTTCTGTGGCCAGGTGTCTCACTCCACTGGAGGC 717
Qy 121 CTGTCTCTGACCTCTTCGGGACCCGAGACCACTGTGCGCAGGCTACTCTGTCTATGC 180
Db 718 CTGTCTCTGACCTCTTCGGGACCCGAGACCACTGTGCGCAGGCTACTCTGTCTATGC 777
Qy 181 CTTCAATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGACTGGACAC 240
Db 778 CTTCAATGATCAGTCTTGGGGCTGCTGGGCTACCTCTGCTGCTGCAATGACTGGACAC 837
Qy 241 CAGTGCCCTGGCCCTTACCTTGGGACCCAGAGGAGTGCCTTTTGGCCTGTCTCACCC 300
Db 838 CAGTGCCCTGGCCCTTACCTTGGGACCCAGAGGAGTGCCTTTTGGCCTGTCTCACCC 897
Qy 301 CATCTTCTTCACTCTGCTAGCAGCACACTGTGTGGTGTGAGAGGAGGCTGGGGCC 360
Db 898 CATCTTCTTCACTCTGCTAGCAGCACACTGTGTGGTGTGAGAGGAGGCTGGGGCC 957
Qy 361 CACGAGCCAGAGAGGCTGTGGCCCTCTTGTGTGGCCCACTGTCTGTCCATGCGC 420
Db 958 CACGAGCCAGAGAGGCTGTGGCCCTCTTGTGTGGCCCACTGTCTGTCCATGCGC 1017
Qy 421 GGCCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGTCTCCCGGCTGCACAGCTGTGCTG 480
Db 1018 GGCCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGTCTCCCGGCTGCACAGCTGTGCTG 1077
Qy 481 CCGATGCCCCGACCTGCGCCGCTCTTGTGTGCTGAGCTGTGAGCTGGAGTGGCACT 540
Db 1078 CCGATGCCCCGACCTGCGCCGCTCTTGTGTGCTGAGCTGTGAGCTGGAGTGGCACT 1137
Qy 541 CATGACCTTACGCTGTTTACCGGATTTCTGGGCGAGGGCTGTACAGGGCGTGGCC 600

Db 1138 CATGACCTTACGCTGTTTACACGAGTTCTGTGGCGAGGGCTGTATACAGGGCGTGCC 1197
Qy 601 CAGAGCTGAGCCGGGACCGAGGCGCGGAGACACTATGATGAAGCGCTTCGATGGGCGAG 660
Db 1198 CAGAGCTGAGCCGGGACCGAGGCGCGGAGACACTATGATGAAGCGCTTCGATGGGCGAG 1257
Qy 661 CTTGGGGCTGTTCTCTGCACTGCGGCATCTCCCTGGTCTTCTCTCTGCTATGAGACCGGCT 720
Db 1258 CTTGGGGCTGTTCTCTGCACTGCGGCATCTCCCTGGTCTTCTCTCTGCTATGAGACCGGCT 1317
Qy 721 GGTGAGCGATTGCGACCTGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 780
Db 1318 GGTGAGCGATTGCGACCTGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGC 1377
Qy 781 TGCCGGTGCACATGCTGCTGCCACAGTGTGGCCGTGTGACAGCTTCAGCGCGCCCTCAC 840
Db 1378 TGCCGGTGCACATGCTGCTGCCACAGTGTGGCCGTGTGACAGCTTCAGCGCGCCCTCAC 1437
Qy 841 CGGGTTACCTTCTCAGCCCTGCAGATCCTGCTTACACACTTGGCCTCCCTTACACCG 900
Db 1438 CGGGTTACCTTCTCAGCCCTGCAGATCCTGCTTACACACTTGGCCTCCCTTACACCG 1497
Qy 901 GGAGAAGCAGGTGTTCTGCTGCCAAATACGAGGGGACACTGGAGTGTACGAGTGAGGA 960
Db 1498 GGAGAAGCAGGTGTTCTGCTGCCAAATACGAGGGGACACTGGAGTGTACGAGTGAGGA 1557
Qy 961 CAGCCTGATGACAGCTTCTGCTGCCAGGCTTAAGCTGTGAGCTCCCTTCCCTTAATGAGCA 1020
Db 1558 CAGCCTGATGACAGCTTCTGCTGCCAGGCTTAAGCTGTGAGCTCCCTTCCCTTAATGAGCA 1617
Qy 1021 CGTGGGTGCTGAGCAGTGCGCTGCTCCCACTCCACCGCGCTCTCGGGGCTCTGCG 1080
Db 1618 CGTGGGTGCTGAGCAGTGCGCTGCTCCCACTCCACCGCGCTCTCGGGGCTCTGCG 1677
Qy 1081 CTGTGATGCTCCGTAAGTGTGGTGGTGGTGAGCCACCGAGGCGAGGTTGGTTCGGG 1140
Db 1678 CTGTGATGCTCCGTAAGTGTGGTGGTGGTGAGCCACCGAGGCGAGGTTGGTTCGGG 1737
Qy 1141 CCGGGGCACTGCTCCGTAAGTGTGGTGGTGGTGAGCCACCGAGGCGAGGTTGGTTCGGG 1200
Db 1738 CCGGGGCACTGCTCCGTAAGTGTGGTGGTGGTGAGCCACCGAGGCGAGGTTGGTTCGGG 1797
Qy 1201 CCGATCCCTGTTATGGGCTCAATGTTCCAGCTCAGCCAGTGTGCTACTGCTATATGGT 1260
Db 1798 CCGATCCCTGTTATGGGCTCAATGTTCCAGCTCAGCCAGTGTGCTACTGCTATATGGT 1857
Qy 1261 GTCTGCCGAGGCTGGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1320
Db 1858 GTCTGCCGAGGCTGGTCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1917
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db 1918 GAGCGACTTGGCCAAATACTCA 1939

RESULT 15
US-09-895-793-110
; Sequence 110, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuxiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriack
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C2
; CURRENT APPLICATION NUMBER: US/09/895.793
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-895-793-110

Query Match 100.0%; Score 1342; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1342; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGGCGGCTGGCTAGCAGGGCTGTGTGCCGGATCCAGAGCCCTGGAGCTGGCACTGCT 60
Db 598 GGGCGGCTGGCTAGCAGGGCTGTGTGCCGGATCCAGAGCCCTGGAGCTGGCACTGCT 657
Qy 61 CATCTCTGGGCTGGGCTGTGTGGACTTTCTGTGGCCAGGTGTGTCACTCCACTGGAGGC 120
Db 658 CATCTCTGGGCTGGGCTGTGTGGACTTTCTGTGGCCAGGTGTGTCACTCCACTGGAGGC 717
Qy 121 CTTGCTCTGTGACCTCTTCGGGACCCGGACCACTGTGCCAGGCTACTCTGTCTATGC 180
Db 718 CTTGCTCTGTGACCTCTTCGGGACCCGGACCACTGTGCCAGGCTACTCTGTCTATGC 777
Qy 181 CTTGATGATCAGTCTTGGGGCTGCTGCGGCTACTCTGCTGCTCCATTGACTGGGACAC 240
Db 778 CTTGATGATCAGTCTTGGGGCTGCTGCGGCTACTCTGCTGCTCCATTGACTGGGACAC 837
Qy 241 CAGTGCCCTGGCCCCCTTACCTGGGACCCAGGAGAGTGCTCTTTGGCTGCTCAACCT 300
Db 838 CAGTGCCCTGGCCCCCTTACCTGGGACCCAGGAGAGTGCTCTTTGGCTGCTCAACCT 897
Qy 301 CATCTTCTCCTGCTGCTAGCAGCCACTGTGCTGGTGGCTGAGGAGGCGCTGGGGCC 360
Db 898 CATCTTCTCCTGCTGCTAGCAGCCACTGTGCTGGTGGCTGAGGAGGCGCTGGGGCC 957
Qy 361 CACGAGCCAGCAGAGAGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGCTCATGCG 420
Db 958 CACGAGCCAGCAGAGAGGCTGTGCGGCCCTCTTGTGCGCCCACTGCTGCTCATGCG 1017
Qy 421 GGCCCGCTTGGCTTTCCGGAACTTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGCTG 480
Db 1018 GGCCCGCTTGGCTTTCCGGAACTTGGGCGCCCTGCTTCCCGGCTGACACAGCTGTGCTG 1077
Qy 481 CCGCATGCCCGCACCTGCGCGGCTTTCGTGGCTGAGCTGTGCACTGGATGGCACT 540
Db 1078 CCGCATGCCCGCACCTGCGCGGCTTTCGTGGCTGAGCTGTGCACTGGATGGCACT 1137
Qy 541 CATGACCTTCACTGCTGTTTACACGGATTTCTGGGCGAGGGGCTGTACACAGGCGTGGCC 600
Db 1138 CATGACCTTCACTGCTGTTTACACGGATTTCTGGGCGAGGGGCTGTACACAGGCGTGGCC 1197
Qy 601 CAGAGCTGAGCCGGGACCCGAGGCGCGGAGACACTATGATGAAGCGCTTCGGATGGGAG 660
Db 1198 CAGAGCTGAGCCGGGACCCGAGGCGCGGAGACACTATGATGAAGCGCTTCGGATGGGAG 1257
Qy 661 CTTGGGGCTGTTCTGCTGAGTGGCCATCTCCCTGGTCTTCTCTGCTGATGAGACCGGCT 720
Db 1258 CTTGGGGCTGTTCTGCTGAGTGGCCATCTCCCTGGTCTTCTCTGCTGATGAGACCGGCT 1317

Qy 721 GGTGAGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 780
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1318 GGTGAGGATTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGC 1377
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 781 TGCCGGTGCCACATGCGCTGTCCACAGTGTGGCCGTGGTGACAGCTTCAGCCGCCCTCAC 840
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1378 TGCCGGTGCCACATGCGCTGTCCACAGTGTGGCCGTGGTGACAGCTTCAGCCGCCCTCAC 1437
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 841 CGGGTTACCTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCG 900
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1438 CGGGTTACCTTCTCAGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCG 1497
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 901 GGAGAAGCAGGTGTTCTGCCCCAAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGGA 960
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1498 GGAGAAGCAGGTGTTCTGCCCCAAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGGA 1557
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 961 CAGCCTGATGACAGCTTCTGCCAGGCCCTAAGCCTGGAGCTCCCTTTCCCTAATGGACA 1020
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1558 CAGCCTGATGACAGCTTCTGCCAGGCCCTAAGCCTGGAGCTCCCTTTCCCTAATGGACA 1617
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1021 CGTGGGTGCTGGAGGCAAGTGGCTGTCCACCTCCACCCCGCGCTCTGGGGGGCTCTGC 1080
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1618 CGTGGGTGCTGGAGGCAAGTGGCTGTCCACCTCCACCCCGCGCTCTGGGGGGCTCTGC 1677
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1081 CTGTGATGCTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG 1140
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1678 CTGTGATGCTCTCCGTACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGGTTCCGGG 1737
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1141 CCGGGGCATCTGCCCTGGACCTCGCCATCTGGATAGTGCCTTCCTGTGTCGCCAGGTGGC 1200
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1738 CCGGGGCATCTGCCCTGGACCTCGCCATCTGGATAGTGCCTTCCTGTGTCGCCAGGTGGC 1797
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1201 CCCATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGGT 1260
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1798 CCCATCCCTGTTTATGGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGGT 1857
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1261 GTCTGCCCGCAGGCTGGGTCTGGTCCGCAATTTACTTTGCTACACAGGTAGTATTTGACAA 1320
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1858 GTCTGCCCGCAGGCTGGGTCTGGTCCGCAATTTACTTTGCTACACAGGTAGTATTTGACAA 1917
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1321 GAGCGACTTGGCCAAATACTCA 1342
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Qy 1918 GAGCGACTTGGCCAAATACTCA 1939
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Search completed: June 16, 2005, 10:18:55
Job time : 975.131 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2005, 02:32:13 ; Search time 238.478 Seconds
(without alignments)
8466.892 Million cell updates/sec

Title: US-09-605-783A-110_COPY_688_1921

Perfect score: 1234

Sequence: 1 tggccagggtgcttcactc.....aggtagtatttgacaagc 1234

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA:**

- 1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:**
- 2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:**
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:**
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:**
- 5: /cgn2_6/ptodata/1/ina/PTUS_COMB.seq:**
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1234	100.0	3410	3	US-09-020-956-110
2	1234	100.0	3410	3	US-09-030-607-110
3	1234	100.0	3410	3	US-09-439-313-110
4	1234	100.0	3410	3	US-09-352-616A-110
5	1234	100.0	3410	3	US-09-602-877A-100
6	1234	100.0	3410	3	US-09-232-149A-110
7	1234	100.0	3410	4	US-09-159-812-110
8	1234	100.0	3410	4	US-09-636-215-110
9	1234	100.0	3410	4	US-09-685-166A-110
10	1234	100.0	3410	4	US-09-115-453-110
11	1234	100.0	3410	4	US-09-688-489-110
12	1234	100.0	3410	4	US-09-679-426-110
13	1234	100.0	3410	4	US-09-759-143-110
14	1234	100.0	3410	4	US-09-651-236-110
15	801	64.9	2904	4	US-09-636-215-703
16	801	64.9	2904	4	US-09-685-166A-703
17	801	64.9	2904	4	US-09-679-426-703
18	801	64.9	2904	4	US-09-759-143-703
19	801	64.9	2904	4	US-09-651-236-703
20	745	60.4	2152	3	US-09-071-710-16
21	745	60.4	2152	3	US-09-525-397-16
22	737	59.7	2143	3	US-09-071-710-15
23	737	59.7	2143	3	US-09-525-397-15
24	683.4	55.4	4034	4	US-09-636-215-704
25	683.4	55.4	4034	4	US-09-685-166A-704
26	683.4	55.4	4034	4	US-09-679-426-704
27	683.4	55.4	4034	4	US-09-759-143-704

28	683.4	55.4	4034	4	US-09-651-236-704	Sequence 704, App
29	683	55.3	4894	4	US-09-636-215-702	Sequence 702, App
30	683	55.3	4894	4	US-09-685-166A-702	Sequence 702, App
31	683	55.3	4894	4	US-09-679-426-702	Sequence 702, App
32	683	55.3	4894	4	US-09-759-143-702	Sequence 702, App
33	683	55.3	4894	4	US-09-651-236-702	Sequence 702, App
34	555	45.0	6976	4	US-09-636-215-705	Sequence 705, App
35	555	45.0	6976	4	US-09-685-166A-705	Sequence 705, App
36	555	45.0	6976	4	US-09-679-426-705	Sequence 705, App
37	555	45.0	6976	4	US-09-759-143-705	Sequence 705, App
38	555	45.0	6976	4	US-09-651-236-705	Sequence 705, App
39	551.4	44.7	789	3	US-09-020-956-10	Sequence 10, Appl
40	551.4	44.7	789	3	US-09-030-607-10	Sequence 10, Appl
41	551.4	44.7	789	3	US-09-439-313-10	Sequence 10, Appl
42	551.4	44.7	789	3	US-09-352-616A-10	Sequence 10, Appl
43	551.4	44.7	789	3	US-09-232-149A-10	Sequence 10, Appl
44	551.4	44.7	789	4	US-09-159-812-10	Sequence 10, Appl
45	551.4	44.7	789	4	US-09-636-215-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1
US-09-020-956-110
; Sequence 110, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 682-6031
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-110

Query Match 100.0%; Score 1234; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGGCCAGGTGCTTCACTCCACTGAGGCCCTGCTCTTGACCTCTTCCGGGACCCGGA 60
Db 688 TGGCCAGGTGCTTCACTCCACTGAGGCCCTGCTCTTGACCTCTTCCGGGACCCGGA 747

Db 928 GCTGGTGGCTGAGGAGGAGCGCTGGGCCCCACCGAGCCAGAGAGGCTGTGGGCCC 987
Qy 301 CTCCTGTGTGCGCCCACTGCTGTCCATGCGCGGCGGCTTGGCTTTCGGAACTGGGGCG 360
Db 988 CTCCTGTGTGCGCCCACTGCTGTCCATGCGCGGCGGCTTGGCTTTCGGAACTGGGGCG 1047
Qy 361 CTTGCTTCCCGGCTGACACAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 420
Db 1048 CTTGCTTCCCGGCTGACACAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 1107
Qy 421 GTGGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCTGTG 480
Db 1108 CGTGGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCT 1167
Qy 481 GTGGGCGAGGGGCTGTACAGAGGCGTCCAGAGCTGTGAGCTGTGAGCTGTGAGCTGTG 540
Db 1168 CGTGGGCGAGGGGCTGTACAGAGGCGTCCAGAGCTGTGAGCTGTGAGCTGTGAGCT 1227
Qy 541 ACATATGATGAAGGCGTTCGATGGGCGAGCTGGGCTGTTCCTGAGTGGCGCATCTC 600
Db 1228 ACATATGATGAAGGCGTTCGATGGGCGAGCTGGGCTGTTCCTGAGTGGCGCATCTC 1287
Qy 601 CTTGGCTTCTCTCTGTGTATGAGACCGGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCT 660
Db 1288 CTTGGCTTCTCTCTGTGTATGAGACCGGCTGTGAGCTGTGAGCTGTGAGCTGTGAGCT 1347
Qy 661 TTTGGCCAGTGTGAGCTTTCCTGTGGCTGCGGCTGTTCCTGAGTGGCGCATCTC 720
Db 1348 TTTGGCCAGTGTGAGCTTTCCTGTGGCTGCGGCTGTTCCTGAGTGGCGCATCTC 1407
Qy 721 GGCGGTGTGACAGCTTTCAGCGGCGCTTTCAGCGGCTTTCAGCGGCTTTCAGCGGCT 780
Db 1408 GGCGGTGTGACAGCTTTCAGCGGCGCTTTCAGCGGCTTTCAGCGGCTTTCAGCGGCT 1467
Qy 781 GCGCTACACACTGCGCTTCCCTTACCAACCGGAGAGAGCTGTTCCTGCGCAATACCG 840
Db 1468 GCGCTACACACTGCGCTTCCCTTACCAACCGGAGAGAGCTGTTCCTGCGCAATACCG 1527
Qy 841 AGGGGACACTGGAGGTGTAGCAGTGTGAGGAGAGAGCTGTGAGGAGAGAGCTGTGAGG 900
Db 1528 AGGGGACACTGGAGGTGTAGCAGTGTGAGGAGAGAGCTGTGAGGAGAGAGCTGTGAGG 1587
Qy 901 TAAGCTTGGAGCTCCCTTCCCTATGAGACAGTGGGTGTGAGGAGAGAGCTGTGAGG 960
Db 1588 TAAGCTTGGAGCTCCCTTCCCTATGAGACAGTGGGTGTGAGGAGAGAGCTGTGAGG 1647
Qy 961 ACCTTCCACCGCGCTCTGCGGGGCTCTGCGCTGTGATGTCTCGTACGTGTGGTGGG 1020
Db 1648 ACCTTCCACCGCGCTCTGCGGGGCTCTGCGCTGTGATGTCTCGTACGTGTGGTGGG 1707
Qy 1021 TGAGCCACCGAGGCGAGGGTGTTCGGGCGGGGCTGTGCGCTGTGAGCTGTGAGCTGTG 1080
Db 1708 TGAGCCACCGAGGCGAGGGTGTTCGGGCGGGGCTGTGCGCTGTGAGCTGTGAGCTGTG 1767
Qy 1081 GGATAGTGCCTTCTGCTGCTCCAGAGTGGCCCATCCCTGTTATGAGGCTCCATGTC 1140
Db 1768 GGATAGTGCCTTCTGCTGCTCCAGAGTGGCCCATCCCTGTTATGAGGCTCCATGTC 1827
Qy 1141 GCTCAGCAGTGTGTCACTGTATATGATGTGTGCGGCGAGGCTGTGGGTGTGGTGGCAT 1200
Db 1828 GCTCAGCAGTGTGTCACTGTATATGATGTGTGCGGCGAGGCTGTGGGTGTGGTGGCAT 1887
Qy 1201 TTACTTTGCTACAGGTAGTATTTGACAGAGC 1234
Db 1888 TTACTTTGCTACAGGTAGTATTTGACAGAGC 1921

RESULT 3
US-09-439-313-110
; Sequence 110, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-439-313-110
Query Match 100.0%; Score 1234; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGCGCAGTGTGCTTCACTCCACTGGAGGCGCTGTCTCTGTGACCTCTTCCGGGACCCGGA 60
Db 688 TGCGCAGTGTGCTTCACTCCACTGGAGGCGCTGTCTCTGTGACCTCTTCCGGGACCCGGA 747
Qy 61 CCACTGTGCGCAGCGCTTACTGTCTATGCTTTCATGATCAGTCTTGGGGCTCCCTGGG 120
Db 748 CCACTGTGCGCAGCGCTTACTGTCTATGCTTTCATGATCAGTCTTGGGGCTCCCTGGG 807
Qy 121 CTACCTCTGCTGCCATTGACTGGGACACAGTGGCGCTTGGCCCCCTACCTGGGACCCCA 180
Db 808 CTACCTCTGCTGCCATTGACTGGGACACAGTGGCGCTTGGCCCCCTACCTGGGACCCCA 867
Qy 181 GAGGAGTGTCTTTGGCGCTGTACCTTACCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 240
Db 868 GAGGAGTGTCTTTGGCGCTGTACCTTACCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 927
Qy 241 GCTGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
Db 928 GCTGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 987
Qy 301 CTCTTGTTCGCCCACTGTCTGTCCATGCGCGGCGCGCTTGGCTTTCGGAACTTGGGCGC 360
Db 988 CTCTTGTTCGCCCACTGTCTGTCCATGCGCGGCGCGCTTGGCTTTCGGAACTTGGGCGC 1047
Qy 361 CTGTCTTTCGCCGCTGTCCAGCTGTCTGCGGATGCGCGGACCCCTTGGCGCGGCTCTT 420
Db 1048 CTTGCTTCCCGGCTGTCCAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 1107
Qy 421 CTTGCTTCCCGGCTGTCCAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 480
Db 1108 CTTGCTTCCCGGCTGTCCAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 1167
Qy 481 CTTGCTTCCCGGCTGTCCAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 540
Db 1168 CTTGCTTCCCGGCTGTCCAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 1227
Qy 541 ACATATGATGAAGGCGTTCGATGGGCGAGCTGGGCTGTTCCTGAGTGGCGCATCTC 600
Db 1228 ACATATGATGAAGGCGTTCGATGGGCGAGCTGGGCTGTTCCTGAGTGGCGCATCTC 1287
Qy 601 CTTGCTTCCCGGCTGTCCAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 660
Db 1288 CTTGCTTCCCGGCTGTCCAGCTGTGTGCGCGATGCCCGACACCTTGGCGCGGCTCTT 1347
Qy 661 TTTGGCCAGTGTGAGCTTTCCTGTGGCTGCGGCTGTTCCTGAGTGGCGCATCTC 720

[illegible]

RESULT 4

```

US-09-352-616A-110
; Sequence 110, Application US/09352616A
; Patent NO. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillion, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110

```

748	DB	CCACTGTGCGCAGCCCTACTCTGTCTATAGCCTTCAATGANTCAGTCTTTGGGGGCTGCCTGGG	807
121	QY	CTACTCTCTGCTGCCATTGACTGGGACACAGTGCCTCGGCCCCCTTACTCTGGGCACCCCA	180
808	DB	CTACTCTCTGCTGCCATTGACTGGGACACAGTGCCTCGGCCCCCTTACTCTGGGCACCCCA	867
181	QY	GGAGGAGTGCCCTCTTTGGCTGCTCAACCTCATCTTCTCACCTGCGTAGCAGCCACACT	240
868	DB	GGAGGAGTGCCCTCTTTGGCTGCTCAACCTCATCTTCTCACCTGCGTAGCAGCCACACT	927
241	QY	GCTGCTGCTGAGAGGACAGCGCTGGGCCCCACCGAGACGACGAGAAGGGCTGTGCGGCC	300
928	DB	GCTGCTGCTGAGAGGACAGCGCTGGGCCCCACCGAGACGAGAAAGGGCTGTGCGGCC	987
301	QY	CTCCTGTGCGCCCACTGCTCATGTCGCGGGGCCGCTTGGCTTTCCGGAACCTGGGCGC	360
988	DB	CTCCTGTGCGCCCACTGCTCATGTCGCGGGGCCGCTTGGCTTTCCGGAACCTGGGCGC	1047
361	QY	CCTGCTTTCCCGGCTGACCAAGCTGTGTCGCGCATGCCCCGACACCTTGCGCCGGCTCTT	420
1048	DB	CCTGCTTTCCCGGCTGACCAAGCTGTGTCGCGCATGCCCCGACACCTTGCGCCGGCTCTT	1107
421	QY	CGTGGCTGAGCTGTGACGTGAGTGGACATCATGACCTTCAACCTGTTTATACAGGATTT	480
1108	DB	CGTGGCTGAGCTGTGACGTGAGTGGACATCATGACCTTCAACCTGTTTATACAGGATTT	1167
481	QY	CGTGGGCGAGGGCTGTACACAGGCGTGCCACAGCTGTGAGCTGTGAGCCGGGACCGAGGCC	540
1168	DB	CGTGGGCGAGGGCTGTACACAGGCGTGCCACAGCTGTGAGCTGTGAGCCGGGACCGAGGCC	1227
541	QY	ACACTATGATGAAGCGCTTCGAGTGGGACGCTGGGGCTGTTCCTCAGTGTGCCCATCTC	600
1228	DB	ACACTATGATGAAGCGCTTCGAGTGGGACGCTGGGGCTGTTCCTCAGTGTGCCCATCTC	1287
601	QY	CCTGGTCTTCTCTGTGTCATGACACCGCTGTGTGACAGGATTCGGGCACTCGAGCATCTA	660
1288	DB	CCTGGTCTTCTCTGTGTCATGACACCGCTGTGTGACAGGATTCGGGCACTCGAGCATCTA	1347
661	QY	TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATGCTGTCCACAGTGT	720
1348	DB	TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATGCTGTCCACAGTGT	1407
721	QY	GGCCGTGGTGACAGCTTTCAGCCGCCCTTCACCGGGTTTCACTTCTCAGCCCTCGAGATCCT	780
1408	DB	GGCCGTGGTGACAGCTTTCAGCCGCCCTTCACCGGGTTTCACTTCTCAGCCCTCGAGATCCT	1467
781	QY	GCCCTACACATGTGCTCCCTCTACACCGGGAGAGCAGGTGTTCTGTCGCCAAATACCG	840
1468	DB	GCCCTACACATGTGCTCCCTCTACACCGGGAGAGCAGGTGTTCTGTCGCCAAATACCG	1527
841	QY	AGGGGACACTGGAGGTGCTAGCAGTAGGACGCTGTATGACACAGCTTCTGTCGCGGCC	900
1528	DB	AGGGGACACTGGAGGTGCTAGCAGTAGGACGCTGTATGACACAGCTTCTGTCGCGGCC	1587
901	QY	TAAAGCTGTGAGCTCCCTTCCCTTAATGGACACGTGGGTGTGTGGAGGACAGTGGCTGCC	960
1588	DB	TAAAGCTGTGAGCTCCCTTCCCTTAATGGACACGTGGGTGTGTGGAGGACAGTGGCTGCC	1647
961	QY	ACTTCCACCCGCGCTGTGCGGGCCCTTGCCCTGTGATGTCTCGTACGTGTGTGTGGG	1020
1648	DB	ACTTCCACCCGCGCTGTGCGGGCCCTTGCCCTGTGATGTCTCGTACGTGTGTGTGGG	1707
1021	QY	TGAGCCCAACGAGGCCAGGCTGTTCGGGGCCGGGGCATCTGCTTGACCTCGCCATCCT	1080
1708	DB	TGAGCCCAACGAGGCCAGGCTGTTCGGGGCCGGGGCATCTGCTTGACCTCGCCATCCT	1767
1081	QY	GGATAGTGCCTTCTCTGCTGTCCAGGTGGGCCCATCCCTGTTTATGGGCTTCCATTGTCCA	1140
1768	DB	GGATAGTGCCTTCTCTGCTGTCCAGGTGGGCCCATCCCTGTTTATGGGCTTCCATTGTCCA	1827
1141	QY	GCTCAGCCAGTGTGTCACTGCCCTATATGTGTGTCTGCCGACGGCCTGGGTGTGGTGC	1200
1828	DB	GCTCAGCCAGTGTGTCACTGCCCTATATGTGTGTCTGCCGAGGGCCTGGGTGTGGTGC	1887

QY 1201 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 1234
|
|
|
Db 1888 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 1921

RESULT 5

US-09-602-877A-100
; Sequence 100, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602, 877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-602-877A-100

Query Match 100.0%; Score 1234; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGCGCAGGTGCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCGGA 60
|
|
|
Db 688 TGCGCAGGTGCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCGGA 747

QY 61 CCACGTGCGCAGCGCTACTGTCTATGCTTATCATGATCAGTCTTGGGGGCTCCCTGGG 120
|
|
|
Db 748 CCACGTGCGCAGCGCTACTGTCTATGCTTATCATGATCAGTCTTGGGGGCTCCCTGGG 807

QY 121 CTACCTCTGCTGCCATTGACTGGGACACAGTGCCTGCCCTACCTGGGACCCCA 180
|
|
|
Db 808 CTACCTCTGCTGCCATTGACTGGGACACAGTGCCTGCCCTACCTGGGACCCCA 867

QY 181 GGAGGAGTGCTCTTTGGCGCTGCTCACCTCATCTCTCTACCTGCGTAGCAGCACACT 240
|
|
|
Db 868 GGAGGAGTGCTCTTTGGCGCTGCTCACCTCATCTCTCTACCTGCGTAGCAGCACACT 927

QY 241 GCTGGTGGCTGAGGAGGCGCTGGGCGCCACCGAGCCAGCAGAGGGCTGTGCGGCC 300
|
|
|
Db 928 GCTGGTGGCTGAGGAGGCGCTGGGCGCCACCGAGCCAGCAGAGGGCTGTGCGGCC 987

QY 301 CTCCTTGCGCCCACTGCTGTCTCATGCGGGCGCGCTTGGCTTCCGGAACCTGGGGCG 360
|
|
|
Db 988 CTCCTTGCGCCCACTGCTGTCTCATGCGGGCGCGCTTGGCTTCCGGAACCTGGGGCG 1047

QY 361 CCTGCTTCCCGGCTGCACAGCTGTGCTGCGCATGCGCGCCCGCTTCCGGAACCTGGGGCT 420
|
|
|
Db 1048 CCTGCTTCCCGGCTGCACAGCTGTGCTGCGCATGCGCGCCCGCTTCCGGAACCTGGGGCT 1107

QY 421 CGTGGCTGAGCTGTGACGTGGATGGCCTCATGACCTTTCACGCTGTTTTACAGGATTT 480
|
|
|
Db 1108 CGTGGCTGAGCTGTGACGTGGATGGCCTCATGACCTTTCACGCTGTTTTACAGGATTT 1167

QY 481 CGTGGGAGGGGCTGTACAGGGGCTGCCAGAGCTGAGCGGGGACCGAGGCGCCGAG 540
|
|
|
Db 1168 CGTGGGAGGGGCTGTACAGGGGCTGCCAGAGCTGAGCGGGGACCGAGGCGCCGAG 1227

QY 541 ACATATGATGAAGCGTTCGATGGGCGAGCTGGGGCTGTCTGCAAGTGGCGCATCTC 600
|
|
|
Db 1228 ACATATGATGAAGCGTTCGATGGGCGAGCTGGGGCTGTCTGCAAGTGGCGCATCTC 1287

QY 601 CCTGGTCTTCTCTGCTCATGGACCGGCTGGTGCAGCGATTCGGGCACTCGAGCAGTCTA 660
|
|
|

Db 1288 CCTGGTCTTCTCTCTGCTCATGGACCGGCTGGTGCAGCGATTCGGCACTCGAGCAGTCTA 1347

QY 661 TTGGCCAGGTGCGCAGCTTTCCCTGTGGTGGCGGTGCCATGCTGCTGCCAGTGT 720
|
|
|
Db 1348 TTGGCCAGGTGCGCAGCTTTCCCTGTGGTGGCGGTGCCATGCTGCTGCCAGTGT 1407

QY 721 GGCGGTGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTCAGCCCTGCAAGATCCT 780
|
|
|
Db 1408 GGCGGTGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTCAGCCCTGCAAGATCCT 1467

QY 781 GCCCTACACACTGGCCTCCCTCTACACCGGGGAGAAGAGGTGTTCTGCCCAATACCG 840
|
|
|
Db 1468 GCCCTACACACTGGCCTCCCTCTACACCGGGGAGAAGAGGTGTTCTGCCCAATACCG 1527

QY 841 AGGGACACTGGAGGTGCTAGCAGTGAAGCAGCTGATGACCAAGCTTCTTCCAGGGGCC 900
|
|
|
Db 1528 AGGGACACTGGAGGTGCTAGCAGTGAAGCAGCTGATGACCAAGCTTCTTCCAGGGGCC 1587

QY 901 TAAGCTTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGCGAGTGCCTGCTCCC 960
|
|
|
Db 1588 TAAGCTTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGCGAGTGCCTGCTCCC 1647

QY 961 ACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGTACGTGTGGTGGTGG 1020
|
|
|
Db 1648 ACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGTACGTGTGGTGGTGG 1707

QY 1021 TGAGCCACCGAGGCGCAGGTGGTTCCGGGCGGGGCGATCTGCTGGACCTCGCCATCCT 1080
|
|
|
Db 1708 TGAGCCACCGAGGCGCAGGTGGTTCCGGGCGGGGCGATCTGCTGGACCTCGCCATCCT 1767

QY 1081 GGATAGTGCCTTCTGCTGCCAGGTGGCGCCCATCCCTGTTATGAGGCTCCATTTGTCCA 1140
|
|
|
Db 1768 GGATAGTGCCTTCTGCTGCCAGGTGGCGCCCATCCCTGTTATGAGGCTCCATTTGTCCA 1827

QY 1141 GCTCAGCAGTCTGTCTACCTGCTATATGTTGTCTGCGCGAGGCGCTGGGTCTGGTGGCAT 1200
|
|
|
Db 1828 GCTCAGCAGTCTGTCTACCTGCTATATGTTGTCTGCGCGAGGCGCTGGGTCTGGTGGCAT 1887

QY 1201 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 1234
|
|
|
Db 1888 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 1921

RESULT 6

US-09-232-149A-110
; Sequence 110, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232, 149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110

Query Match 100.0%; Score 1234; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGCGCAGGTGCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCGGA 60
|
|
|
Db 688 TGCGCAGGTGCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCGGA 747

QY 61 CCACGTGCGCAGGCTTCTGTCTATGCTTATGATCAGTCTTGGGGGCTGCCTGGG 120
|
|
|

Db 1288 CCTGGTCTTCTCTCTGTCATGAGACCGGCTGGTGCAGCGATTGCGCACTCGAGCAGTCTA 1347
Qy 661 TTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGCGGTGCCACATGCTGCTGCCACAGTGT 720
Db 1348 TTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGCGGTGCCACATGCTGCTGCCACAGTGT 1407
Qy 721 GGCCGTGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTCAGCCCTGCGAGATCCT 780
Db 1408 GGCCGTGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTCAGCCCTGCGAGATCCT 1467
Qy 781 GCCCTACACACTGCGCTTCCCTTACCAACCGGAGAGAGGTGTTCCTGCCAAATACCG 840
Db 1468 GCCCTACACACTGCGCTTCCCTTACCAACCGGAGAGAGGTGTTCCTGCCAAATACCG 1527
Qy 841 AGGGACACTGGAGGTGTAGCAGTGAAGGACAGCTGATGACAGCTTCTGCGAGGCC 900
Db 1528 AGGGACACTGGAGGTGTAGCAGTGAAGGACAGCTTCTGCGAGGCC 1587
Qy 901 TAAGCCTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGGAGTGGCTGTCTCC 960
Db 1588 TAAGCCTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGGAGTGGCTGTCTCC 1647
Qy 961 ACCTCCACCGCGCTCTGCGGGCTCTGCGTGTGATGTCTCCGTAGCTGTGTGGTGG 1020
Db 1648 ACCTCCACCGCGCTCTGCGGGCTCTGCGTGTGATGTCTCCGTAGCTGTGTGGTGG 1707
Qy 1021 TGAGCCACCGAGCGAGGTGGTTCGGGCGGGGATCTGCTGAGCTCGGCCATCCT 1080
Db 1708 TGAGCCACCGAGCGAGGTGGTTCGGGCGGGGATCTGCTGAGCTCGGCCATCCT 1767
Qy 1081 GGATAGTGCCTTCTGCTGCCAGGTGGCCCATCCTGTTTATGGCTCCATTGTCCA 1140
Db 1768 GGATAGTGCCTTCTGCTGCCAGGTGGCCCATCCTGTTTATGGCTCCATTGTCCA 1827
Qy 1141 GCTCAGCAGTCTGCTACTGCTATATGTTGTCTGCCGAGGCTGGGTCTGGTTCGCCAT 1200
Db 1828 GCTCAGCAGTCTGCTACTGCTATATGTTGTCTGCCGAGGCTGGGTCTGGTTCGCCAT 1887
Qy 1201 TTACTTTGCTACAGGTAGTATTGACAGAGC 1234
Db 1888 TTACTTTGCTACAGGTAGTATTGACAGAGC 1921

RESULT 8

US-09-636-215-110
; Sequence 110, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 110

; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
; US-09-636-215-110

Query Match 100.0%; Score 1234; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGCGCAGGTGTGCTTCACTCCACTGAGAGGCGCTGCTCTCTGACCTCTTCGGGAGCCCGGA 60
Db 688 TGCGCAGGTGTGCTTCACTCCACTGAGAGGCGCTGCTCTCTGACCTCTTCGGGAGCCCGGA 747
Qy 61 CCACTGTGCGCAGCGCTTACTCTGTATGCTTTCATGATCAGTCTTCGGGAGCTCCCTGGG 120
Db 748 CCACTGTGCGCAGCGCTTACTCTGTATGCTTTCATGATCAGTCTTCGGGAGCTCCCTGGG 807
Qy 121 CTACCTCTGCTGCTGCTTCACTGAGGACACAGTGGCCCTGGCCCTTACCTGGGACACCCA 180
Db 808 CTACCTCTGCTGCTGCTTCACTGAGGACACAGTGGCCCTGGCCCTTACCTGGGACACCCA 867
Qy 181 GAGGAGTGTGCTTCTGGCCCTGCTCACCCTCATCTTCTCAGCTGCTAGCAGCACACT 240
Db 868 GAGGAGTGTGCTTCTGGCCCTGCTCACCCTCATCTTCTCAGCTGCTAGCAGCACACT 927
Qy 241 GCTGTGGCTGAGGAGGAGCGCTGGGCGCCACCGAGCCAGCAGAGGGCTGTGCGGCC 300
Db 928 GCTGTGGCTGAGGAGGAGCGCTGGGCGCCACCGAGCCAGCAGAGGGCTGTGCGGCC 987
Qy 301 CTCTTGTCTGCGCCACTGCTGTCCATGCGCGGCGCGCTTGGCTTTCGGGAACCTTGGGCGC 360
Db 988 CTCTTGTCTGCGCCACTGCTGTCCATGCGCGGCGCGCTTGGCTTTCGGGAACCTTGGGCGC 1047
Qy 361 CTGCTTCTGCGCGCTGCGACCGCTGTGCTGCGGATGCGCCCGACACCTTGGCGCGGCTCTT 420
Db 1048 CTGCTTCTGCGCGCTGCGACCGCTGTGCTGCGGATGCGCCCGACACCTTGGCGCGGCTCTT 1107
Qy 421 CGTGGCTGAGCTGTGAGCTGGATGCGACCTCATGACCTTCACGCTGTTTACACGGATTT 480
Db 1108 CGTGGCTGAGCTGTGAGCTGGATGCGACCTCATGACCTTCACGCTGTTTACACGGATTT 1167
Qy 481 CGTGGCGAGGGCTGTGTACCGAGGCGCTGCCAGAGCTGAGCCGGGACACCGAGGCCCGGAG 540
Db 1168 CGTGGCGAGGGCTGTGTACCGAGGCGCTGCCAGAGCTGAGCCGGGACACCGAGGCCCGGAG 1227
Qy 541 AACTATGATGAAGGCTTCGAGTGGGAGCGCTGCGGCTGTTCTGAGTGGCGCATCTC 600
Db 1228 AACTATGATGAAGGCTTCGAGTGGGAGCGCTGCGGCTGTTCTGAGTGGCGCATCTC 1287
Qy 601 CCTGGTCTTCTCTCTGTCATGACCGGCTGGTGCAGCGATTGCGCACTCGAGCAGTCTA 660
Db 1288 CCTGGTCTTCTCTCTGTCATGACCGGCTGGTGCAGCGATTGCGCACTCGAGCAGTCTA 1347
Qy 661 TTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGCGGTGCCACATGCTGCTGCCACAGTGT 720
Db 1348 TTTGGCCAGTGTGCGAGCTTTCCCTGTGGCTGCGGTGCCACATGCTGCTGCCACAGTGT 1407
Qy 721 GGCCGTGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTCAGCCCTGCGAGATCCT 780
Db 1408 GGCCGTGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTCAGCCCTGCGAGATCCT 1467
Qy 781 GGCCCTACACACTGCGCTCCCTCTACCAACCGGAGAGCAGGTGTTCCTGCCAAATACCG 840
Db 1468 GGCCCTACACACTGCGCTCCCTCTACCAACCGGAGAGCAGGTGTTCCTGCCAAATACCG 1527
Qy 841 AGGGACACTGGAGGTGTAGCAGTGAAGGACAGCTGATGACAGCTTCTGCGAGGCC 900
Db 1528 AGGGACACTGGAGGTGTAGCAGTGAAGGACAGCTGATGACAGCTTCTGCGAGGCC 1587
Qy 901 TAAGCCTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGGAGTGGCTGTCTCC 960
Db 1588 TAAGCCTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGGAGTGGCTGTCTCC 1647

QY 961 ACCTCCACCCGCGCTCTCGGGGCGCTCTGCTGTGATGTCCTCGTACGCTGTGTTGGG 1020
Db 1648 ACCTCCACCCGCGCTCTCGGGGCGCTCTGCTGTGATGTCCTCGTACGCTGTGTTGGG 1707
QY 1021 TGAGCCACCCAGGCGAGGCTGTTCCGGGCGGGGCGATCTGCTGGACCTGCGCATCCT 1080
Db 1708 TGAGCCACCCAGGCGAGGCTGTTCCGGGCGGGGCGATCTGCTGGACCTGCGCATCCT 1767
QY 1081 GGATAGTGCCTTCTGCTGTCCAGGTGCGCCCATCCCTGTTTATAGGCTCCATTGTCCA 1140
Db 1768 GGATAGTGCCTTCTGCTGTCCAGGTGCGCCCATCCCTGTTTATAGGCTCCATTGTCCA 1827
QY 1141 GCTAGCCAGTGTCTCACTGCGCTATATGTTGTCTCGCGAGGCGCTGGGTGCGCAT 1200
Db 1828 GCTAGCCAGTGTCTCACTGCGCTATATGTTGTCTCGCGAGGCGCTGGGTGCGCAT 1887
QY 1201 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1234
Db 1888 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1921

RESULT 9

US-09-685-166A-110
; Sequence 110, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-685-166A-110

Query Match 100.0%; Score 1234; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TGCCAGGTGTGCTTCACTCCACTGGAGGCGCTCTCTGTGACCTCTTCCGGGACCCGGA 60
Db 688 TGCCAGGTGTGCTTCACTCCACTGGAGGCGCTCTCTGTGACCTCTTCCGGGACCCGGA 747
QY 61 CCACGTGCGCAGGCGTACTGTCTATGCTTCTCATGATCAGTCTTGGGGCTGCTGGG 120
Db 748 CCACGTGCGCAGGCGTACTGTCTATGCTTCTCATGATCAGTCTTGGGGCTGCTGGG 807
QY 121 CTACCTCTGCTGCTGCTTACTGTGGACACAGGTGCGCCCTGCGCCCTTACCTGGGACCCA 180
Db 808 CTACCTCTGCTGCTGCTTACTGTGGACACAGGTGCGCCCTGCGCCCTTACCTGGGACCCA 867
QY 181 GGAGAGTGCCTTTTGGCGCTGCTCACCCCTCATCTTCTCTCACTGCTGAGCAGCCACT 240

Db 868 GGAGAGTGCCTTTTGGCGCTGCTCACCCCTCATCTTCTCACTGCTGAGCAGCCACT 927
QY 241 GCTGGTGGCTGAGAGGCGAGCGCTGGGCCCCACCGAGCCAGAGAGGCTGTGCGGCCCC 300
Db 928 GCTGGTGGCTGAGAGGCGAGCGCTGGGCCCCACCGAGCCAGAGAGGCTGTGCGGCCCC 987
QY 301 CTCCTTGTGCGCCCCACCTGCTCCATGCCGGGCGCGCTTGGCTTTTCCGGAACTGGGGGCG 360
Db 988 CTCCTTGTGCGCCCCACCTGCTCCATGCCGGGCGCGCTTGGCTTTTCCGGAACTGGGGGCG 1047
QY 361 CCTGCTTCCCCTGCTGACACAGCTGTGCTGCCGATGCCCGCCGACCTTGGCGCGGCTCTT 420
Db 1048 CCTGCTTCCCCTGCTGACACAGCTGTGCTGCCGATGCCCGCCGACCTTGGCGCGGCTCTT 1107
QY 421 CGTGGCTGAGCTGTGACCTGGATGGCACTCATGACCTTACGCTGTTTACACGGAATTT 480
Db 1108 CGTGGCTGAGCTGTGACCTGGATGGCACTCATGACCTTACGCTGTTTACACGGAATTT 1167
QY 481 CGTGGGCGAGGGGCTGTACACAGGCGCTGCCAGAGCTGAGCGGGGCGACCCGAGGCCCGGAG 540
Db 1168 CGTGGGCGAGGGGCTGTACACAGGCGCTGCCAGAGCTGAGCGGGGCGCCGAG 1227
QY 541 ACATATGATGAAGGCGTTGCGATGGGAGCGCTGGGGCTGTTCCTGAGTGGCGCATCTC 600
Db 1228 ACATATGATGAAGGCGTTGCGATGGGAGCGCTGGGGCTGTTCCTGAGTGGCGCATCTC 1287
QY 601 CCTGCTTCTCTCTGCTCATGGACCGGCTGGTGCAGCGATTCCGCACTCCAGAGTCTA 660
Db 1288 CCTGCTTCTCTCTGCTCATGGACCGGCTGGTGCAGCGATTCCGCACTCCAGAGTCTA 1347
QY 661 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGCGGTGCCACATGCCCTGTCCCAGTGT 720
Db 1348 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGCGGTGCCACATGCCCTGTCCCAGTGT 1407
QY 721 GGCGGTGGTGAAGCTTACGCGCGCTTACCGGGTTTCACTTCTCAGCCCTGCGAGATCCT 780
Db 1408 GGCGGTGGTGAAGCTTACGCGCGCTTACCGGGTTTCACTTCTCAGCCCTGCGAGATCCT 1467
QY 781 GCCCTACACACTGGCCTCCCTTACCCGCGGAGAGCAGGTGTCTCGCCCAATACCG 840
Db 1468 GCCCTACACACTGGCCTCCCTTACCCGCGGAGAGCAGGTGTCTCGCCCAATACCG 1527
QY 841 AGGGGACACTGGAGGTGTCTAGCAGTGAGGACAGCTTGTATGACCACTTCTGCCAGGCC 900
Db 1528 AGGGGACACTGGAGGTGTCTAGCAGTGAGGACAGCTTGTATGACCACTTCTGCCAGGCC 1587
QY 901 TAAGCCTGGAGCTCCCTTCCCTTAATGAGACAGTGGGTGCTGGAGGAGTGGCTGCTGCC 960
Db 1588 TAAGCCTGGAGCTCCCTTCCCTTAATGAGACAGTGGGTGCTGGAGGAGTGGCTGCTGCC 1647
QY 961 ACCTCCACCCGCGCTCTGCGGGGCGCTTCCGCTGTGATGTCCTCGTGTGTTGGTGGG 1020
Db 1648 ACCTCCACCCGCGCTCTGCGGGGCGCTTCCGCTGTGATGTCCTCGTGTGTTGGTGGG 1707
QY 1021 TGAGCCACCCAGGCGAGGCTGTTCCGGGCGGGGCGATCTGCTTGGACCTCGCCATCCT 1080
Db 1708 TGAGCCACCCAGGCGAGGCTGTTCCGGGCGGGGCGATCTGCTTGGACCTCGCCATCCT 1767
QY 1081 GGATAGTGCCTTCTGCTGCCAGGTGGCCCCATCCCTGTTTATAGGCTCCATTGTCCA 1140
Db 1768 GGATAGTGCCTTCTGCTGCCAGGTGGCCCCATCCCTGTTTATAGGCTCCATTGTCCA 1827
QY 1141 GCTCAGCCAGTCTGTCACTGCTATATGTTGTCTTGGCGCAGGCGCTGGGTCTGGTGCCTAT 1200
Db 1828 GCTCAGCCAGTCTGTCACTGCTATATGTTGTCTTGGCGCAGGCGCTGGGTCTGGTGCCTAT 1887
QY 1201 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1234
Db 1888 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1921

US-09-115-453-110
; Sequence 110, Application US/09115453B
; Patent No. 6657056
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115.453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-115-453-110

Query Match 100.0%; Score 1234; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGCCAGGTGTCTTCACTCCACTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 60
Db 688 TGCCAGGTGTCTTCACTCCACTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 747

Qy 61 CCACGTGCGCAGGCCCTACTGTCTATGCTTCATGATCAGTCTTGGGGGCTGCTGGG 120
Db 748 CCACGTGCGCAGGCCCTACTGTCTATGCTTCATGATCAGTCTTGGGGGCTGCTGGG 807

Qy 121 CTACTCTGCTGCCATTGACTGGGACACAGTGCCCTGGCCCCCTACTGGGACCCCA 180
Db 808 CTACTCTGCTGCCATTGACTGGGACACAGTGCCCTGGCCCCCTACTGGGACCCCA 867

Qy 181 GGAGGAGTGCTCTTTGGCCCTGTCCACCTCATCTTCTCCTCACCTGCGTAGCAGCCACT 240
Db 868 GGAGGAGTGCTCTTTGGCCCTGTCCACCTCATCTTCTCCTCACCTGCGTAGCAGCCACT 927

Qy 241 GCTGGTGCTGAGAGGAGCGGCTGGGGCCCCACCGAGCCAGCAGAGGGCTGTGGGCCCC 300
Db 928 GCTGGTGCTGAGAGGAGCGGCTGGGGCCCCACCGAGCCAGCAGAGGGCTGTGGGCCCC 987

Qy 301 CTCCTGTGCGCCCCACTGTGTCCATCCCGGGCCGCTTGGCTTTCGGAACTGGGCGC 360
Db 988 CTCCTGTGCGCCCCACTGTGTCCATCCCGGGCCGCTTGGCTTTCGGAACTGGGCGC 1047

Qy 361 CCTGCTTCCCGGCTGCACCACTGTGTGCGCATGCCCGCACCTCGCGCCGCTCTT 420
Db 1048 CCTGCTTCCCGGCTGCACCACTGTGTGCGCATGCCCGCACCTCGCGCCGCTCTT 1107

Qy 421 CGTGGCTGAGTGTGACGTGGATGGCACTCATGACCTTACGCTGTTTTACAGGATTT 480
Db 1108 CGTGGCTGAGTGTGACGTGGATGGCACTCATGACCTTACGCTGTTTTACAGGATTT 1167

Qy 481 CGTGGGAGGGGCTGTACAGGGCGTCCAGAGCTGAGCGGGCAGCCGAGGCCCGGAG 540
Db 1168 CGTGGGAGGGGCTGTACAGGGCGTCCAGAGCTGAGCGGGCAGCCGAGGCCCGGAG 1227

Qy 541 ACATATGATGAAGCGCTTGGATGGGAGCGCTGGGGCTGTCTTCTGCACTGCGCATCTC 600
Db 1228 ACATATGATGAAGCGCTTGGATGGGAGCGCTGGGGCTGTCTTCTGCACTGCGCATCTC 1287

Qy 601 CCTGGTCTTCTCTGTGTCATGAGACCGGCTGGTGCAGGATTCGGCACTGAGCAGTCTA 660
Db 1288 CCTGGTCTTCTCTGTGTCATGAGACCGGCTGGTGCAGGATTCGGCACTGAGCAGTCTA 1347

Qy 661 TTTCGCCAGTGTGGCAGCTTCCCTGTGGCTGCGGTCGCCACATGCTGTGCCACAGTGT 720
Db 1348 TTTCGCCAGTGTGGCAGCTTCCCTGTGGCTGCGGTCGCCACATGCTGTGCCACAGTGT 1407

Qy 721 GGCCGTGTGACAGCTTCAAGCGGCCCTCACCGGCTTCAACCTTCTCAGCCCTTGACAGTCT 780
Db 181 GGAGGAGTGCTCTTTGGCCCTGTCCACCTCATCTTCTCCTCACCTGCGTAGCAGCCACT 240

Db 1408 GGCCGTGTGACAGCTTCAAGCGGCCCTCACCGGCTTCAACCTTCTCAGCCCTTGACAGTCT 1467

Qy 781 GCCTTACACACTGCGCTCCCTCTTACACACCGGGAGAGCAGGTGTCTCTGCCCAATACCG 840

Db 1468 GCCTTACACACTGCGCTCCCTCTTACACACCGGGAGAGCAGGTGTCTCTGCCCAATACCG 1527

Qy 841 AGGGGACACTGGAGGTGCTAGCAGTGAAGGACAGCCTGATGACCAAGCTTCTTCGCAGGCC 900

Db 1528 AGGGGACACTGGAGGTGCTAGCAGTGAAGGACAGCCTGATGACCAAGCTTCTTCGCAGGCC 1587

Qy 901 TAAGCCTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGCTGGAGGACAGTGGCTGCTCCC 960

Db 1588 TAAGCCTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGCTGGAGGACAGTGGCTGCTCCC 1647

Qy 961 ACCTCCACCCGCGCTCTGCGGGCCCTCTGCTGTGATGTCTCGTAGTGTGGGTGGGG 1020

Db 1648 ACCTCCACCCGCGCTCTGCGGGCCCTCTGCTGTGATGTCTCGTAGTGTGGGTGGGG 1707

Qy 1021 TGAGCCCAACCGAGGCCAGGGTGGTTCCGGGCCGGGGCATCTGCTTGACCTTCGCCATCTCT 1080

Db 1708 TGAGCCCAACCGAGGCCAGGGTGGTTCCGGGCCGGGGCATCTGCTTGACCTTCGCCATCTCT 1767

Qy 1081 GGATAGTGCCTTCTGCTGTCCAGAGTGGCCCCCATCCCTGTTTATGGGCTCCATTGTCCA 1140

Db 1768 GGATAGTGCCTTCTGCTGTCCAGAGTGGCCCCCATCCCTGTTTATGGGCTCCATTGTCCA 1827

Qy 1141 GCTCAGCAGTGTCTCACTGCTTATATGGTGTCTGCGCAGGCTGCGTCTGTGCGCAT 1200

Db 1828 GCTCAGCAGTGTCTCACTGCTTATATGGTGTCTGCGCAGGCTGCGTCTGTGCGCAT 1887

Qy 1201 TTACTTTGCTACACAGGTAGTATTTGACAAAGC 1234

Db 1888 TTACTTTGCTACACAGGTAGTATTTGACAAAGC 1921

RESULT 11
US-09-688-489-110
; Sequence 110, Application US/09688489
; Patent No. 6664377
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427D2
; CURRENT APPLICATION NUMBER: US/09/688.489
; CURRENT FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-688-489-110

Query Match 100.0%; Score 1234; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGCCAGGTGTGCTTCACTCCACTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 60
Db 688 TGCCAGGTGTGCTTCACTCCACTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 747

Qy 61 CCACGTGCGCAGGCCCTACTGTCTATGCTTCATGATCAGTCTTGGGGGCTGCTGGG 120
Db 748 CCACGTGCGCAGGCCCTACTGTCTATGCTTCATGATCAGTCTTGGGGGCTGCTGGG 807

Qy 121 CTACTCTGCTGCCATTGACTGGGACACAGTGCCCTGGCCCCCTACTGGGACCCCA 180
Db 808 CTACTCTGCTGCCATTGACTGGGACACAGTGCCCTGGCCCCCTACTGGGACCCCA 867

Qy 181 GGAGGAGTGCTCTTTGGCCCTGTCCACCTCATCTTCTCCTCACCTGCGTAGCAGCCACT 240

Db 868 GGAGAGTGCCTCTTTGGCGCTGCTCACCTCATCTTCTCAGTGCCTAGCAGCCACACT 927
Qy 241 GCTGCTGCTGAGGAGGAGGCTGGGCCCCACCGAGCCAGCAGAGGCTGTGGGCCCC 300
Db 928 GCTGCTGCTGAGGAGGAGGCTGGGCCCCACCGAGCCAGCAGAGGCTGTGGGCCCC 987
Qy 301 CTCCTTGTGCGGCCCACTGCTGTCCATGATGCGGCGCGCTTGGCTTTCCGGAACTTGGGGCC 360
Db 988 CTCCTTGTGCGGCCCACTGCTGTCCATGATGCGGCGCGCTTGGCTTTCCGGAACTTGGGGCC 1047
Qy 361 CCTGCTTCCCAGGCTGACAGCTGTGCTGCGGCATGCCCCGACCTTGCAGCGGCTCTT 420
Db 1048 CCTGCTTCCCAGGCTGACAGCTGTGCTGCGGCATGCCCCGACCTTGCAGCGGCTCTT 1107
Qy 421 CGTGGCTGAGCTGTCAGCTGATGGGCACTCATGACCTTTCAGCTGTTTACAGGATTT 480
Db 1108 CGTGGCTGAGCTGTCAGCTGATGGGCACTCATGACCTTTCAGCTGTTTACAGGATTT 1167
Qy 481 CGTGGCGAGGGGCTGTACAGGGCGTGCCAGAGCTGAGCGGGGACCCGAGGCCCGGAG 540
Db 1168 CGTGGCGAGGGGCTGTACAGGGCGTGCCAGAGCTGAGCGGGGACCCGAGGCCCGGAG 1227
Qy 541 ACATATGATGAGGCGTTCGATGGGAGGCTGGGGCTGTTCCTGCAAGTGGGCACTC 600
Db 1228 ACATATGATGAGGCGTTCGATGGGAGGCTGGGGCTGTTCCTGCAAGTGGGCACTC 1287
Qy 601 CCTGGCTTCTCTGCTGATGAGCGGCTGGTGAGGATTCGGCACTTCGAGAGTCTA 660
Db 1288 CCTGGCTTCTCTGCTGATGAGCGGCTGGTGAGGATTCGGCACTTCGAGAGTCTA 1347
Qy 661 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTCGCCATGCTGTCACAGTGT 720
Db 1348 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTCGCCATGCTGTCACAGTGT 1407
Qy 721 GGCCTGTGTGACAGCTTCAGCGGCTTCCAGCGGCTTCACTTTCAGCGCTTGCAGATCCT 780
Db 1408 GGCCTGTGTGACAGCTTCAGCGGCTTCCAGCGGCTTCACTTTCAGCGCTTGCAGATCCT 1467
Qy 781 GGCCTTACACACTGGCTTCCCTTACACCGGGAGAGCAGGTGTTCTTCGCCCAATACCG 840
Db 1468 GGCCTTACACACTGGCTTCCCTTACACCGGGAGAGCAGGTGTTCTTCGCCCAATACCG 1527
Qy 841 AGGGACACTGGAGTGTAGCAGTGAAGCAGCCTGATGACCACTTCTTCGCCAGGCCC 900
Db 1528 AGGGACACTGGAGTGTAGCAGTGAAGCAGCCTGATGACCACTTCTTCGCCAGGCCC 1587
Qy 901 TAAGCTGGAGTTCCTTCCCTTAATGGACAGTGGGTGCTGGAGGAGTGGCTGCTCC 960
Db 1588 TAAGCTGGAGTTCCTTCCCTTAATGGACAGTGGGTGCTGGAGGAGTGGCTGCTCC 1647
Qy 961 ACCTCACCCGCGCTTCGCGGGCTCTGCTGTGATGCTCCGTACGCTGTGGTGGG 1020
Db 1648 ACCTCACCCGCGCTCTCGGGGCTCTGCTGTGATGCTCCGTACGCTGTGGTGGG 1707
Qy 1021 TGAGCCCAACGAGGCGAGGGTGGTTCCGGGCGGGGCACTCTGCTTGAACCTTCGCCATCCT 1080
Db 1708 TGAGCCCAACGAGGCGAGGGTGGTTCCGGGCGGGGCACTCTGCTTGAACCTTCGCCATCCT 1767
Qy 1081 GGATAGTCCCTTCTGCTGTCCAGGTGGCGCCCATCCCTGTTTATGGGCTCATTTGCCA 1140
Db 1768 GGATAGTCCCTTCTGCTGTCCAGGTGGCGCCCATCCCTGTTTATGGGCTCATTTGCCA 1827
Qy 1141 GCTCAGCAGTCTGTCACTGCTATATGCTGTGTCGCGCAGGCTTGGGTCTGGTCCGCAT 1200
Db 1828 GCTCAGCAGTCTGTCACTGCTATATGCTGTGTCGCGCAGGCTTGGGTCTGGTCCGCAT 1887
Qy 1201 TTACTTTGCTACAGGCTAGTATTTGACAAAGAGC 1234
Db 1888 TTACTTTGCTACAGGCTAGTATTTGACAAAGAGC 1921

US-09-679-426-110
; Sequence 110, Application US/09679426
; Patent No. 6759515
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C20
; CURRENT APPLICATION NUMBER: US/09/679,426
; CURRENT FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 895
; SOFTWARE: Fast-Seq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-679-426-110

Query Match 100.0%; Score 1234; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGGCCAGGTGTGCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCGGA 60
Db 688 TGGCCAGGTGTGCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCGGA 747
Qy 61 CCACGTGCGCAGGCTTACTCTGTATGCTTCAATGATGCTTGGGGCTGCTGGG 120
Db 748 CCACGTGCGCAGGCTTACTCTGTATGCTTCAATGATGCTTGGGGCTGCTGGG 807
Qy 121 CTACCTCTGCTGCCATTGACTGGGACACAGTGGCCCTGGCCCCCTACCTGGGACCCCA 180
Db 808 CTACCTCTGCTGCCATTGACTGGGACACAGTGGCCCTGGCCCCCTACCTGGGACCCCA 867
Qy 181 GGAGGAGTGTCTTTTGGCTGTCTCACCTCATCTTCTCACCTGCGTAGCAGCCACT 240
Db 868 GGAGGAGTGTCTTTTGGCTGTCTCACCTCATCTTCTCACCTGCGTAGCAGCCACT 927
Qy 241 GCTGGTGGCTGAGAGGAGCGCTGGGCCCCACCGAGCAGCAGAGGGCTGTGGGCCCC 300
Db 928 GCTGGTGGCTGAGAGGAGCGCTGGGCCCCACCGAGCAGCAGAGGGCTGTGGGCCCC 987
Qy 301 CTCCTTGTGCGGCCCACTGCTGTCCATGCGGGCGCGCTTGGCTTTCGGAACTTGGGGCC 360
Db 988 CTCCTTGTGCGGCCCACTGCTGTCCATGCGGGCGCGCTTGGCTTTCGGAACTTGGGGCC 1047
Qy 361 CCTGCTTCCCAGGCTGACAGCTGTGCTGCGCATGCCCGCACCTTGCAGCGGCTCTT 420
Db 1048 CCTGCTTCCCAGGCTGACAGCTGTGCTGCGCATGCCCGCACCTTGCAGCGGCTCTT 1107
Qy 421 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTTCAGCTGTTTACAGGATTT 480
Db 1108 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTTCAGCTGTTTACAGGATTT 1167
Qy 481 CGTGGGCGAGGGCTGTACAGGGCGTGGCCAGAGCTGAGCGGGGACCCGAGGCCCGGAG 540
Db 1168 CGTGGGCGAGGGCTGTACAGGGCGTGGCCAGAGCTGAGCGGGGACCCGAGGCCCGGAG 1227

```
Qy 541 ACATATGATGAAGCGCTTCGATGGGAGCGCTGGGCTGTTCCTGCAGTGGCGCATCTC 600
Db 1228 ACATATGATGAAGCGCTTCGATGGGAGCGCTGGGCTGTTCCTGCAGTGGCGCATCTC 1287
Qy 601 CTTGGTCTTCTCTCTGTCTATGAGACCGGCTGTGTCAGCGATTCGGCACTGAGCAGTCTA 660
Db 1288 CTTGGTCTTCTCTCTGTCTATGAGACCGGCTGTGTCAGCGATTCGGCACTGAGCAGTCTA 1347
Qy 661 TTTGGGCGAGTGTGGCAGCTTCCCTGTGGCTGGCTGGCGGTGGCCATGTCCTGCCACAGTGT 720
Db 1348 TTTGGGCGAGTGTGGCAGCTTCCCTGTGGCTGGCTGGCGGTGGCCATGTCCTGCCACAGTGT 1407
Qy 721 GGCGGTGGTGACAGCTTTCAGCGCGCTTACACACCGGGAGAGCGGTGTTCCTGCCAAATACG 840
Db 1468 GGCGGTGGTGACAGCTTTCAGCGCGCTTACACACCGGGAGAGCGGTGTTCCTGCCAAATACG 1527
Qy 841 AGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCTGATGACAGCTTCTTCAGCGCTTGCAGATCCT 900
Db 1528 AGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCTGATGACAGCTTCTTCAGCGCTTGCAGATCCT 1587
Qy 901 TAAGCCTGGAGCTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGGAGTGGCTTGCCTGCC 960
Db 1588 TAAGCCTGGAGCTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGGAGTGGCTTGCCTGCC 1647
Qy 961 ACCTCCACCGCGCTCTGCGGGGCTCTGCGTGTGATGTCTCCGTACGTGTGGTGGG 1020
Db 1648 ACCTCCACCGCGCTCTGCGGGGCTCTGCGTGTGATGTCTCCGTACGTGTGGTGGG 1707
Qy 1021 TGAGCCACCGAGCGAGGTGGTTCGGGCGGGGATCTGCTGAGCTTGCCTGCCATCCT 1080
Db 1708 TGAGCCACCGAGCGAGGTGGTTCGGGCGGGGATCTGCTGAGCTTGCCTGCCATCCT 1767
Qy 1081 GGATAGTGCCTTCTGCTGCTCCAGGTGGCGCCATCCCTGTTATGGGCTCCATTGTCCA 1140
Db 1768 GGATAGTGCCTTCTGCTGCTCCAGGTGGCGCCATCCCTGTTATGGGCTCCATTGTCCA 1827
Qy 1141 GCTCAGCAGTGTCTGCTATATGTTGTTGTCGCGAGGCTGGGTCTGTCGCGCAT 1200
Db 1828 GCTCAGCAGTGTCTGCTATATGTTGTTGTCGCGAGGCTGGGTCTGTCGCGCAT 1887
Qy 1201 TTACTTTGCTACAGGTAGTATTGACAGAGC 1234
Db 1888 TTACTTTGCTACAGGTAGTATTGACAGAGC 1921
```

RESULT 13

```
US-09-759-143-110
; Sequence 110, Application US/09759143
; Patent No. 6800746
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stoik, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
```

```
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-110
```

```
Query Match 100.0%; Score 1234; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.9e-295;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TGCCAGGTGTGCTTCACTCCACTGGAGGCGCTGCTCTCTGACCTCTTCCGGGACCCGGA 60
Db 688 TGCCAGGTGTGCTTCACTCCACTGGAGGCGCTGCTCTCTGACCTCTTCCGGGACCCGGA 747
Qy 61 CCATGTGCGCAGGCGCTTACTGTCTATGCTTTCATGATCAGTCTTGGGGCTGCTGGG 120
Db 748 CCACTGTGCGCAGGCGCTTACTGTCTATGCTTTCATGATCAGTCTTGGGGCTGCTGGG 807
Qy 121 CTACCTCTGCTGCCATTGACTGGGACACAGTGGCTTGGCCCCCTTACCTGGGACCCCA 180
Db 808 CTACCTCTGCTGCCATTGACTGGGACACAGTGGCTTGGCCCCCTTACCTGGGACCCCA 867
Qy 181 GGAGGAGTGTCTTTTGGCTGTCTACCTTCACTTCTTCTTCTTCTTCTTCTTCTTCTTCT 240
Db 868 GGAGGAGTGTCTTTTGGCTGTCTACCTTCACTTCTTCTTCTTCTTCTTCTTCTTCTTCT 927
Qy 241 GCTGTGTGCTGAGGAGGCGCTGGGCCCCACCGAGCGAGCAGAGGCTGTGGGGCGC 300
Db 928 GCTGTGTGCTGAGGAGGCGCTGGGCCCCACCGAGCGAGCAGAGGCTGTGGGGCGC 987
Qy 301 CTCCTTGTGCGCCCACTGTCTTCCATGCGGGGCGCTTGGCTTTCGGGAACCTTGGGCGC 360
Db 988 CTCCTTGTGCGCCCACTGTCTTCCATGCGGGGCGCTTGGCTTTCGGGAACCTTGGGCGC 1047
Qy 361 CTTGCTTCCCGGCTGACAGCTGTGCTGCGGATGCGCGGACCTTGGCGCGGCTCTT 420
Db 1048 CTTGCTTCCCGGCTGACAGCTGTGCTGCGGATGCGCGGACCTTGGCGCGGCTCTT 1107
Qy 421 CGTGGCTGAGCTGTGAGCTGGATGGCAGCTCATGACCTTCACGCTGTTTACAGGATTT 480
Db 1108 CGTGGCTGAGCTGTGAGCTGGATGGCAGCTCATGACCTTCACGCTGTTTACAGGATTT 1167
Qy 481 CGTGGCGAGGGCTGTGTACCGAGGCGTGGCCAGAGCTGAGCCGGGACCCGAGGCGCGAG 540
Db 1168 CGTGGCGAGGGCTGTGTACCGAGGCGTGGCCAGAGCTGAGCCGGGACCCGAGGCGCGAG 1227
Qy 541 ACATATGATGAAGCGCTTCGATGGGAGCGCTGGGCTGTTCCTGCAGTGGCGCATCTC 600
Db 1228 ACATATGATGAAGCGCTTCGATGGGAGCGCTGGGCTGTTCCTGCAGTGGCGCATCTC 1287
Qy 601 CTTGGTCTTCTCTCTGTCTATGAGACCGGCTGTGTCAGCGATTCGGCACTGAGCAGTCTA 660
Db 1288 CTTGGTCTTCTCTCTGTCTATGAGACCGGCTGTGTCAGCGATTCGGCACTGAGCAGTCTA 1347
Qy 661 TTTGGGCGAGTGTGGCAGCTTTCCTTCTGCTGGCTGGCTGGCGGTGGCCATGTCCTGCCACAGTGT 720
Db 1348 TTTGGGCGAGTGTGGCAGCTTTCCTTCTGCTGGCTGGCTGGCGGTGGCCATGTCCTGCCACAGTGT 1407
Qy 721 GGCGGTGGTGACAGCTTTCAGCGCGCTTACACACCGGGAGAGCGGTGTTCCTGCCAAATACG 780
Db 1408 GGCGGTGGTGACAGCTTTCAGCGCGCTTACACACCGGGAGAGCGGTGTTCCTGCCAAATACG 1467
Qy 781 GGCGGTGGTGACAGCTTTCAGCGCGCTTACACACCGGGAGAGCGGTGTTCCTGCCAAATACG 840
Db 1468 GGCGGTGGTGACAGCTTTCAGCGCGCTTACACACCGGGAGAGCGGTGTTCCTGCCAAATACG 1527
Qy 841 AGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCTGATGACAGCTTCTTCAGCGCTTGCAGATCCT 900
```


Qy 1201 TTACTTTGCTACACAGGTAGTATTGACAAAGC 1234
Db 1888 TTACTTTGCTACACAGGTAGTATTGACAAAGC 1921

RESULT 15

US-09-636-215-703
; Sequence 703, Application US/09636215

; Patent No. 6620322

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.42717C17

; CURRENT APPLICATION NUMBER: US/09/636.215

; CURRENT FILING DATE: 2000-08-10

; NUMBER OF SEQ ID NOS: 852

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 703

; LENGTH: 2904

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-636-215-703

Query Match 64.9%; Score 801; DB 4; Length 2904;

Best Local Similarity 77.2%; Pred. No. 2.3e-188;

Matches 1152; Conservative 0; Mismatches 0; Indels 341; Gaps 1;

Qy 83 GTCTATGCTTCATGATCAGTCTTGGGGCTGCTGGGCTACCTCGCTGCCATTCGAC 142
Db 1 GTCTATGCTTCATGATCAGTCTTGGGGCTGCTGGGCTACCTCGCTGCCATTCGAC 60
Qy 143 TGGGACACCACTGCGCTGGCCCCCTACCTGGGACCCAGGAGGAGTGCTCTTTGGCTG 202
Db 61 TGGGACACCACTGCGCTGGCCCCCTACCTGGGACCCAGGAGGAGTGCTCTTTGGCTG 120
Qy 203 CTCACCTTCATCTTCTCCTACCTGCGTAGCACCACACCTGCTGGTGGCTGAGGAGCAGCG 262
Db 121 CTCACCTTCATCTTCTCCTCCTCCTGCTAGCACCACACCTGCTGGTGGCTGAGGAGCAGCG 180
Qy 263 CTGGGCCCCCAGCAGCAGGAGGCTGCGGCCCCCTCTTGTGCCCCCATGCTGT 322
Db 181 CTGGGCCCCCAGCAGCAGGAGGCTGCGGCCCCCTCTTGTGCCCCCATGCTGT 240
Qy 323 CCATGCGGGGCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGGCTGCACCG 382
Db 241 CCATGCGGGGCCGCTTGGCTTTCCGGAACCTGGGCGCCCTGCTTCCCGGCTGCACCG 300
Qy 383 CTGTGCTGCCGATGCCCCCGACCCCTGCGCGGCTCTTTGCTGGCTGAGCTGTGAGCTGG 442
Db 301 CTGTGCTGCCGATGCCCCCGACCCCTGCGCGGCTCTTTGCTGGCTGAGCTGTGAGCTGG 360
Qy 443 ATGGCACTCATGACCTTCACCGCTTTTACACGATTTCTGTTGGGCGAGGGGCTGTACCG 502
Db 361 ATGGCACTCATGACCTTCACCGCTTTTACACGATTTCTGTTGGGCGAGGGGCTGTACCG 420

Qy 503 GGCCTGCCAGAGCTGAGCCGGGCACCGAGGCCCGGAGACACTATGATGAA----- 553
Db 421 GGCCTGCCAGAGCTGAGCCGGGCACCGAGGCCCGGAGACACTATGATGAAAGGAGGCT 480
Qy 554 ----- 553
Db 481 CTGGCTGCTCTAGGAGTCTGATCAGAGTCGTTGCCCCCAGTTTGCAGAGAAAGCGGA 540
Qy 554 ----- 553
Db 541 GCTTATTCAAAGTCTAGAGGAGTGGAGGATTAAAGCTGGATTTCAGATCTGCTGTT 600
Qy 554 ----- 553
Db 601 CCAGCGCAGTGTGCCCTCTGCTCCCCCAACGACTTTCCAAATAATCTCACAGCGCTT 660
Qy 554 ----- 553
Db 661 CCAGCTCAGCGCTCTAGAAAGCGTCTTGAAGCCTATGGCCAGCTGCTTTGTGTTCCCTC 720
Qy 554 ----- 553
Db 721 TCACCCGCTGCTCTCACAGCTGAGACTCCAGAGAAACCTTCAGACTACCTTCCTCTGCC 780
Qy 554 ----- 553
Db 781 TTCAGAAAGGGCGTTGCCACATTCTCTGAGGGCGTTTCGATGGGAGCTGCGGCTGT 840
Qy 582 TCCTGCAAGTGGCCATCTCCTGCTGCTCTCTCTGCTGATGAGACCGGCTGTCAGCGAT 641
Db 841 TCCTGCAAGTGGCCATCTCCTGCTGCTCTCTCTCTGCTGATGAGACCGGCTGTCAGCGAT 900
Qy 642 TCGGCACTCGAGCAGTCTATTGGCCAGTGGGAGCTTTCCCTGCTGCTGCTGCTGCTGCTG 701
Db 901 TCGGCACTCGAGCAGTCTATTGGCCAGTGGGAGCTTTCCCTGCTGCTGCTGCTGCTGCTG 960
Qy 702 CATGCTGCTCCACAGTGTGGCGCTGATGAGCTTCAGCGCCCTCACCGGCTTCACCT 761
Db 961 CATGCTGCTCCACAGTGTGGCGCTGATGAGCTTCAGCGCCCTCACCGGCTTCACCT 1020
Qy 762 TCTCAGCCCTGCAAGTCTGCTTACACACTGCGCTGCTCTACACCGGAGAGCAGG 821
Db 1021 TCTCAGCCCTGCAAGTCTGCTTACACACTGCGCTGCTCTACACCGGAGAGCAGG 1080
Qy 822 TGTTCCTGCCCAATACCGAGGGGACACTGAGGTGCTAGCAGTGAGACAGCCTGATGA 881
Db 1081 TGTTCCTGCCCAATACCGAGGGGACACTGAGGTGCTAGCAGTGAGACAGCCTGATGA 1140
Qy 882 CCAGCTTCTGCCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTTAATGGACACAGTGGTGTG 941
Db 1141 CCAGCTTCTGCCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTTAATGGACACAGTGGTGTG 1200
Qy 942 GAGCAGTGGCTGCTCCACCTTCCACCGGCTCTGCGGGGCTCTGCTGCTGATGCT 1001
Db 1201 GAGCAGTGGCTGCTCCACCTTCCACCGGCTCTGCGGGGCTCTGCTGCTGATGCT 1260
Qy 1002 CCCTACGCTGGTGGTGGTGGAGCCACCGAGGCGAGGCTGCTCGGGCCGGGCGATCT 1061
Db 1261 CCCTACGCTGGTGGTGGTGGAGCCACCGAGGCGAGGCTGCTCGGGCCGGGCGATCT 1320
Qy 1062 GCCTGGACCTCGCCATCTCGATAGTCTTCTGCTGCTCCAGGTGGCCCATCCCTGT 1121
Db 1321 GCCTGGACCTCGCCATCTCGATAGTCTTCTGCTGCTCCAGGTGGCCCATCCCTGT 1380
Qy 1122 TTATGGGCTCCTATGTCAGCTCAGCCAGTCTGCTGCTGCTATATGCTGCTGCTGCTGCTG 1181
Db 1381 TTATGGGCTCCTATGTCAGCTCAGCCAGTCTGCTGCTGCTATATGCTGCTGCTGCTGCTG 1440
Qy 1182 GCCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1234
Db 1441 GCCTGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1493

Search completed: June 16, 2005, 04:10:26
Job time : 241.478 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2005, 03:52:53 ; Search time 894.816 Seconds
(without alignments)
8560.543 Million cell updates/sec

Title: US-09-605-783A-110_COPY_688_1921
Perfect score: 1234
Sequence: 1 tggccagggtgcttcacac.....aggtagtattgacaagagc 1234

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6054689 seqs, 310372919 residues

Total number of hits satisfying chosen parameters: 12109378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq.*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq.*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq.*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq.*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq.*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq.*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq.*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq.*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq.*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq.*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq.*
- 22: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq.*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	1234	100.0	1662	16	US-10-005-907-12
2	1234	100.0	1662	17	US-10-295-027-547
3	1234	100.0	2133	15	US-10-296-770-3
4	1234	100.0	2582	17	US-10-295-027-901
5	1234	100.0	3320	9	US-09-838-785-1
6	1234	100.0	3332	21	US-10-936-626-21
7	1234	100.0	3332	21	US-10-938-061-21

8	1234	100.0	3410	9	US-09-745-288-100	Sequence 100, App
9	1234	100.0	3410	9	US-09-759-143-110	Sequence 110, App
10	1234	100.0	3410	9	US-09-780-669-110	Sequence 110, App
11	1234	100.0	3410	9	US-09-030-806-110	Sequence 110, App
12	1234	100.0	3410	9	US-09-822-827-110	Sequence 110, App
13	1234	100.0	3410	9	US-09-115-453-110	Sequence 110, App
14	1234	100.0	3410	9	US-09-232-880-110	Sequence 110, App
15	1234	100.0	3410	9	US-09-895-793-110	Sequence 110, App
16	1234	100.0	3410	9	US-09-895-814-110	Sequence 110, App
17	1234	100.0	3410	13	US-10-012-896-110	Sequence 110, App
18	1234	100.0	3410	14	US-10-010-940-110	Sequence 110, App
19	1234	100.0	3410	16	US-10-144-678A-110	Sequence 110, App
20	1234	100.0	3410	16	US-10-294-025-110	Sequence 110, App
21	1234	100.0	3410	18	US-10-453-919-100	Sequence 100, App
22	1234	100.0	3410	19	US-10-688-838-110	Sequence 110, App
23	1232.4	99.9	1702	19	US-10-403-142-1	Sequence 1, Appli
24	868.4	70.4	918	16	US-10-144-678A-1027	Sequence 1027, Ap
25	868.4	70.4	918	16	US-10-294-025-1027	Sequence 1027, Ap
26	801	64.9	2904	9	US-09-759-143-703	Sequence 703, App
27	801	64.9	2904	9	US-09-780-669-703	Sequence 703, App
28	801	64.9	2904	9	US-09-822-827-703	Sequence 703, App
29	801	64.9	2904	9	US-09-895-793-703	Sequence 703, App
30	801	64.9	2904	9	US-09-895-814-703	Sequence 703, App
31	801	64.9	2904	13	US-10-012-896-703	Sequence 703, App
32	801	64.9	2904	16	US-10-144-678A-703	Sequence 703, App
33	801	64.9	2904	16	US-10-294-025-703	Sequence 703, App
34	745	60.4	2152	9	US-09-841-894-15	Sequence 15, Appl
35	737	59.7	2143	9	US-09-841-894-15	Sequence 15, Appl
36	693	56.2	741	16	US-10-144-678A-1026	Sequence 1026, Ap
37	693	56.2	741	16	US-10-294-025-1026	Sequence 1026, Ap
38	683.4	55.4	4034	9	US-09-759-143-704	Sequence 704, App
39	683.4	55.4	4034	9	US-09-780-669-704	Sequence 704, App
40	683.4	55.4	4034	9	US-09-822-827-704	Sequence 704, App
41	683.4	55.4	4034	9	US-09-895-793-704	Sequence 704, App
42	683.4	55.4	4034	9	US-09-895-814-704	Sequence 704, App
43	683.4	55.4	4034	13	US-10-012-896-704	Sequence 704, App
44	683.4	55.4	4034	16	US-10-144-678A-704	Sequence 704, App
45	683.4	55.4	4034	16	US-10-294-025-704	Sequence 704, App

ALIGNMENTS

RESULT 1
US-10-005-907-12
; Sequence 12, Application US/10005907
; Publication No. US20030166881A1
; GENERAL INFORMATION:
; APPLICANT: Union Chimique Belge, S.A.
; APPLICANT: No. US20030166881A1Aka, Karl
; APPLICANT: Pirozzi, Gregory
; APPLICANT: Einstein, Richard
; TITLE OF INVENTION: NOVEL GENES ASSOCIATED WITH ALLERGIC HYPERSENSITIVITY AND MAST CE
; FILE REFERENCE: 053529-5005
; CURRENT APPLICATION NUMBER: US/10/005,907
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 12
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1662)
; OTHER INFORMATION:
US-10-005-907-12

Query Match 100.0%; Score 1234; DB 16; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGGCCAGGTGTGCTTCACTCCACTGAGAGGCCCTGTCTCTGTGACCTCTCTCCCGGACCCCGGA 60
Db |||||
405 TGGCCAGGTGTGCTTCACTCCACTGAGAGGCCCTGTCTCTGTGACCTCTCTCCCGGACCCCGGA 464
QY 61 CCACGTGTGCGCAGGCTACTGTCTATGCTTTCATGATCAGTCTTGGGGGTGCTGGG 120
Db |||||
465 CCACGTGTGCGCAGGCTACTGTCTATGCTTTCATGATCAGTCTTGGGGGTGCTGGG 524
QY 121 CTACCTCTCTGCTGCTGCAATTTGAGTGGGACACAGTGCCTTGGGCCCTTACCTTGGGACCCCA 180
Db |||||
525 CTACCTCTCTGCTGCTGCAATTTGAGTGGGACACAGTGCCTTGGGCCCTTACCTTGGGACCCCA 584
QY 181 GGAGAGTGCCTTCTTGGGCTGCTCACTCCCTCATCTTCTCTCACTCGGTAGCAGCCACACT 240
Db |||||
585 GGAGAGTGCCTTCTTGGGCTGCTCACTCCCTCATCTTCTCTCACTCGGTAGCAGCCACACT 644
QY 241 GCTGTGTGCTGAGGAGGAGCGCTGGGCCCCACCGCAGCAGCAGAGGGCTGTGCGGCC 300
Db |||||
645 GCTGTGTGCTGAGGAGGAGCGCTGGGCCCCACCGCAGCAGCAGAGGGCTGTGCGGCC 704
QY 301 CTCCTTGTGCGCCCACTGCTGTCTTCCATGCGCGGCCCGCTTGGCTTTCGGAACTTGGCGGC 360
Db |||||
705 CTCCTTGTGCGCCCACTGCTGTCTTCCATGCGCGGCCCGCTTGGCTTTCGGAACTTGGCGGC 764
QY 361 CCTGCTTCCCGGCTGCACAGCTGTGTGCGCAGTGCCTGCGCAGCCCTGCGCGGCTCTT 420
Db |||||
765 CCTGCTTCCCGGCTGCACAGCTGTGTGCGCAGTGCCTGCGCAGCCCTGCGCGGCTCTT 824
QY 421 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
Db |||||
825 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 884
QY 481 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
Db |||||
885 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 944
QY 541 ACATATGATGAAGCGTTCGATGCGAGCCTGCGGCTGTTCCTGCACTGCGCATCTC 600
Db |||||
945 ACATATGATGAAGCGTTCGATGCGAGCCTGCGGCTGTTCCTGCACTGCGCATCTC 1004
QY 601 CTTGCTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Db |||||
1005 CTTGCTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1064
QY 661 TTTGGCCAGTGTGCGAGCTTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Db |||||
1065 TTTGGCCAGTGTGCGAGCTTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1124
QY 721 GGCCTGTGTGACGCTTTCAGCGCCCTTCACTGCGGCTTCACTTCTCAGCCCTGCGAGATCCT 780
Db |||||
1125 GGCCTGTGTGACGCTTTCAGCGCCCTTCACTGCGGCTTCACTTCTCAGCCCTGCGAGATCCT 1184
QY 781 GGCCTTACACACTGCGCTTCCCTTACACCGGAGAGCAGGCTTCTGCGCCCAATACCG 840
Db |||||
1185 GGCCTTACACACTGCGCTTCCCTTACACCGGAGAGCAGGCTTCTGCGCCCAATACCG 1244
QY 841 AGGGGACACTGAGGTGTGCTAGCAGTGAGGACAGCCTGATGACAGCTTCTTCCGACGGCCC 900
Db |||||
1245 AGGGGACACTGAGGTGTGCTAGCAGTGAGGACAGCCTGATGACAGCTTCTTCCGACGGCCC 1304
QY 901 TAAGCCTTGAGCTTCCCTTCCCTTAATGAGACAGTGGGCTGAGGAGCAGTGGCTGCTGCC 960
Db |||||
1305 TAAGCCTTGAGCTTCCCTTCCCTTAATGAGACAGTGGGCTGAGGAGCAGTGGCTGCTGCC 1364
QY 961 ACCTCCACCGCGCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020
Db |||||
1365 ACCTCCACCGCGCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1424
QY 1021 TGAGGCCACCGAGGCGAGGGTGGTTCCGGGCCCGGGCATCTGCTTGGACCTCGCCATCCT 1080
Db |||||
1425 TGAGGCCACCGAGGCGAGGGTGGTTCCGGGCCCGGGCATCTGCTTGGACCTCGCCATCCT 1484
QY 1081 GGATAGTGCCTTCTCTGCTGCTGCCAGGTGGGCCCACTCCCTGTTTATGGGGCTCATTGTCCA 1140

Db 1485 GGATAGTGCCTTCTCTGCTGCTGCCAGGTGGGCCCACTCCCTGTTATGGGCTCCATTGTCCA 1544
QY 1141 GCTCAGCCAGTCTGCTCACTGCTATATGCTGCTGCGCAGGCTTGGGTGCGCAT 1200
Db |||||
1545 GCTCAGCCAGTCTGCTCACTGCTATATGCTGCTGCGCAGGCTTGGGTGCGCAT 1604
QY 1201 TTACTTTGCTACACAGGCTAGTATTGTGACAGAGC 1234
Db |||||
1605 TTACTTTGCTACACAGGCTAGTATTGTGACAGAGC 1638
RESULT 2
US-10-295-027-547
; Sequence 547, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 547
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-547
Query Match 100.0%; Score 1234; DB 17; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TGGCCAGGTGTGCTTCACTCCACTGAGAGGCCCTGTCTCTGTGACCTCTCTCCCGGACCCCGGA 60
Db |||||
405 TGGCCAGGTGTGCTTCACTCCACTGAGAGGCCCTGTCTCTGTGACCTCTCTCCCGGACCCCGGA 464
QY 61 CCACGTGTGCGCAGGCTACTGTCTATGCTTTCATGATCAGTCTTGGGGGTGCTGGG 120
Db |||||
465 CCACGTGTGCGCAGGCTACTGTCTATGCTTTCATGATCAGTCTTGGGGGTGCTGGG 524
QY 121 CTACCTCTCTGCTGCTGCAATTTGAGTGGGACACAGTGCCTTGGGCCCTTACCTTGGGACCCCA 180
Db |||||
525 CTACCTCTCTGCTGCTGCAATTTGAGTGGGACACAGTGCCTTGGGCCCTTACCTTGGGACCCCA 584
QY 181 GGAGAGTGCCTTCTTGGGCTGCTCACTCCCTCATCTTCTCTCACTCGGTAGCAGCCACACT 240
Db |||||
585 GGAGAGTGCCTTCTTGGGCTGCTCACTCCCTCATCTTCTCTCACTCGGTAGCAGCCACACT 644
QY 241 GCTGTGTGCTGAGGAGGAGCGCTGGGCCCCACCGCAGCAGCAGAGGGCTGTGCGGCC 300
Db |||||
645 GCTGTGTGCTGAGGAGGAGCGCTGGGCCCCACCGCAGCAGCAGAGGGCTGTGCGGCC 704
QY 301 CTCCTTGTGCGCCCACTGCTGTCTTCCATGCGCGGCCCGCTTGGCTTTCGGAACTTGGCGGC 360
Db |||||
705 CTCCTTGTGCGCCCACTGCTGTCTTCCATGCGCGGCCCGCTTGGCTTTCGGAACTTGGCGGC 764
QY 361 CCTGCTTCCCGGCTGCACAGCTGTGTGCGCAGTGCCTGCGCAGCCCTGCGCGGCTCTT 420
Db |||||
765 CCTGCTTCCCGGCTGCACAGCTGTGTGCGCAGTGCCTGCGCAGCCCTGCGCGGCTCTT 824
QY 421 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
Db |||||
825 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 884
QY 481 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
Db |||||
885 CGTGTGTGAGCTGCTGAGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 944
QY 541 ACATATGATGAAGCGTTCGATGCGAGCCTGCGGCTGTTCCTGCACTGCGCATCTC 600
Db |||||
945 ACATATGATGAAGCGTTCGATGCGAGCCTGCGGCTGTTCCTGCACTGCGCATCTC 1004
QY 601 CTTGCTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Db |||||
1005 CTTGCTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1064
QY 661 TTTGGCCAGTGTGCGAGCTTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
Db |||||
1065 TTTGGCCAGTGTGCGAGCTTTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1124
QY 721 GGCCTGTGTGACGCTTTCAGCGCCCTTCACTGCGGCTTCACTTCTCAGCCCTGCGAGATCCT 780
Db |||||
1125 GGCCTGTGTGACGCTTTCAGCGCCCTTCACTGCGGCTTCACTTCTCAGCCCTGCGAGATCCT 1184
QY 781 GGCCTTACACACTGCGCTTCCCTTACACCGGAGAGCAGGCTTCTGCGCCCAATACCG 840
Db |||||
1185 GGCCTTACACACTGCGCTTCCCTTACACCGGAGAGCAGGCTTCTGCGCCCAATACCG 1244
QY 841 AGGGGACACTGAGGTGTGCTAGCAGTGAGGACAGCCTGATGACAGCTTCTTCCGACGGCCC 900
Db |||||
1245 AGGGGACACTGAGGTGTGCTAGCAGTGAGGACAGCCTGATGACAGCTTCTTCCGACGGCCC 1304
QY 901 TAAGCCTTGAGCTTCCCTTCCCTTAATGAGACAGTGGGCTGAGGAGCAGTGGCTGCTGCC 960
Db |||||
1305 TAAGCCTTGAGCTTCCCTTCCCTTAATGAGACAGTGGGCTGAGGAGCAGTGGCTGCTGCC 1364
QY 961 ACCTCCACCGCGCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020
Db |||||
1365 ACCTCCACCGCGCTGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1424
QY 1021 TGAGGCCACCGAGGCGAGGGTGGTTCCGGGCCCGGGCATCTGCTTGGACCTCGCCATCCT 1080
Db |||||
1425 TGAGGCCACCGAGGCGAGGGTGGTTCCGGGCCCGGGCATCTGCTTGGACCTCGCCATCCT 1484
QY 1081 GGATAGTGCCTTCTCTGCTGCTGCCAGGTGGGCCCACTCCCTGTTTATGGGGCTCATTGTCCA 1140

Db 1392 ACATATGATGAAGCGTTTCGGATGGCAGCCTGGGGCTGTTCCTGAGTGGCCATCTC 1451
Qy 601 CCTGCTCTTCTCTGCTCATGAGCCGGCTGGTGCAGGATTCGGCACTTCGAGCAGTCTA 660
Db 1452 CTTGCTCTTCTCTGCTCATGAGCCGGCTGGTGCAGGATTCGGCACTTCGAGCAGTCTA 1511
Qy 661 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATGCCCTGTCCCACAGTGT 720
Db 1512 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATGCCCTGTCCCACAGTGT 1571
Qy 721 GGCCTGTGTGACAGCTTCAGCGCCCTCACCGGGTTCACTTCTCAGCCCTGCAGATCCT 780
Db 1572 GGCCTGTGTGACAGCTTCAGCGCCCTCACCGGGTTCACTTCTCAGCCCTGCAGATCCT 1631
Qy 781 GGCCTACACACTGGCTCCCTCTACACCGGGAGAGCAGGTGTTCTTCCGCCCAATACCG 840
Db 1632 GGCCTACACACTGGCTCCCTCTACACCGGGAGAGCAGGTGTTCTTCCGCCCAATACCG 1691
Qy 841 AGGGACACTGGAGGTGTAGCAGTGAGGACAGCCCTGATGACCACTTCTGCCAGGCC 900
Db 1692 AGGGACACTGGAGGTGTAGCAGTGAGGACAGCCCTGATGACCACTTCTGCCAGGCC 1751
Qy 901 TAAGCTGTGAGCTCCCTTCCCTAAATGGAACAGTGGGTGTGAGGACAGTGGCTGCTCCC 960
Db 1752 TAAGCTGTGAGCTCCCTTCCCTAAATGGAACAGTGGGTGTGAGGACAGTGGCTGCTCCC 1811
Qy 961 ACTCCACCGGCTCTCGGGGCTCTGCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1020
Db 1812 ACTCCACCGGCTCTCGGGGCTCTGCGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1871
Qy 1021 TGAGCCACCGAGGCGAGGTGGTTCCGGGCGCGGGGCATCTGCCCTGGACCTCGCCATCCT 1080
Db 1872 TGAGCCACCGAGGCGAGGTGGTTCCGGGCGCGGGGCATCTGCCCTGGACCTCGCCATCCT 1931
Qy 1081 GGATAGTGGCTTCTGCTGTCCAGGTGGCCGCCATCCCTGTTTATAGGCTCGATGTCGA 1140
Db 1932 GGATAGTGGCTTCTGCTGTCCAGGTGGCCGCCATCCCTGTTTATAGGCTCGATGTCGA 1991
Qy 1141 GCTCAGCAGTCTGTCACTGCTATATGTTGTTCTGCCGAGCCCTGGGTCTGGTGGCCAT 1200
Db 1992 GCTCAGCAGTCTGTCACTGCTATATGTTGTTCTGCCGAGCCCTGGGTCTGGTGGCCAT 2051
Qy 1201 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 1234
Db 2052 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 2085

RESULT 4

US-10-295-027-901
; Sequence 901, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Azi, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE REFERENCE: 018501-012500US
; CURRENT FILING DATE: 2002-11-13
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15

; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 901
; LENGTH: 2582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(2582)
; OTHER INFORMATION: n = g, a, c or t
US-10-295-027-901

Query Match 100.0%; Score 1234; DB 17; Length 2582;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGGCCAGGTGTCTTCACTCCACCTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 60
Db 714 TGGCCAGGTGTCTTCACTCCACCTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 773
Qy 61 CCATGTGCGCAGGCTTACTCTGTCTATGCTTATGCTTATGATGATGATGATGATGATGATG 120
Db 774 CCATGTGCGCAGGCTTACTCTGTCTATGCTTATGCTTATGATGATGATGATGATGATGATG 833
Qy 121 CTACCTCTGCTGCCATTGACTGGGACACAGTGCCTGCCCTCCCTACCTGGGACCCCA 180
Db 834 CTACCTCTGCTGCCATTGACTGGGACACAGTGCCTGCCCTCCCTACCTGGGACCCCA 893
Qy 181 GGAGGAGTGCCTCTTTGGCCCTGCTCACCTCATCTTCTTCTACCTGCTGAGCAGCACA 240
Db 894 GGAGGAGTGCCTCTTTGGCCCTGCTCACCTCATCTTCTTCTACCTGCTGAGCAGCACA 953
Qy 241 GCTGCTGCTGAGGAGGAGGCTGGGGCCGCCACCGAGCCAGACAGAGGCTGTGGGGCCC 300
Db 954 GCTGCTGCTGAGGAGGAGGCTGGGGCCGCCACCGAGCCAGACAGAGGCTGTGGGGCCC 1013
Qy 301 CTGCTTGTGCGCCCACTGCTGTCCATGCGGGGCGCGCTTGGCTTTCGGGAACCTGGGGCGC 360
Db 1014 CTGCTTGTGCGCCCACTGCTGTCCATGCGGGGCGCGCTTGGCTTTCGGGAACCTGGGGCGC 1073
Qy 361 CTGCTTTCGGGCTGCACCACTGCTGTGCGCATGCGCCGACCCCTGCGCCCGCTCTT 420
Db 1074 CTGCTTTCGGGCTGCACCACTGCTGTGCGCATGCGCCGACCCCTGCGCCCGCTCTT 1133
Qy 421 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTACGCTGTTTACACGATTT 480
Db 1134 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTACGCTGTTTACACGATTT 1193
Qy 481 CGTGGGCGAGGGCTGTACACAGGGCGTCCCGAGAGCTGAGCGGGGACCCGAGGCCGAG 540
Db 1194 CGTGGGCGAGGGCTGTACACAGGGCGTCCCGAGAGCTGAGCGGGGACCCGAGGCCGAG 1253
Qy 541 ACATATGATGAAGCGCTTCCGATGGGAGCCTTGGGGCTGTTCTTCTGAGTGGCCATCTC 600
Db 1254 ACATATGATGAAGCGCTTCCGATGGGAGCCTTGGGGCTGTTCTTCTGAGTGGCCATCTC 1313
Qy 601 CCTGGTCTTCTCTGCTCATGGACCGGCTGGTGCAGCGATTCCGCACTCCGAGCAGTCTA 660

Db 1314 CCTGGTCTTCTCTCTGTGATGGAGCCGGCTGGTGAGCGATTCGGCACTCGAGCAGTCTA 1373
Qy 661 TTTGGCCAGTGTGGCAGCTTTTCCCTGTGGCTGCGGTGCGGTGCGACATGCCCTGTCCACAGTGT 720
Db 1374 TTTGGCCAGTGTGGCAGCTTTTCCCTGTGGCTGCGGTGCGGTGCGACATGCCCTGTCCACAGTGT 1433
Qy 721 GGCCGTGTGTGACAGCTTTCAGCGCCCTTACACCGGGTTTCACTTTCAGCCCTGCGAGATCCT 780
Db 1434 GGCCGTGTGTGACAGCTTTCAGCGCCCTTACACCGGGTTTCACTTTCAGCCCTGCGAGATCCT 1493
Qy 781 GCCCTACACATCGCCCTCCCTTACCACCGGGAGAGCAGTGTTCCTGCCAATACCG 840
Db 1494 GCCCTACACATCGCCCTCCCTTACCACCGGGAGAGCAGTGTTCCTGCCAATACCG 1553
Qy 841 AGGGGACACTGGAGGTGTAGCAGTGGAGCAGAGCTGATGACCAAGCTTTCCTGCCAGGCC 900
Db 1554 AGGGGACACTGGAGGTGTAGCAGTGGAGCAGAGCTGATGACCAAGCTTTCCTGCCAGGCC 1613
Qy 901 TAAGCCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGCAGTGGCCCTGCTCCC 960
Db 1614 TAAGCCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGCAGTGGCCCTGCTCCC 1673
Qy 961 ACCTCCACCCGCTCTGCGGGGCTCTGCGGTGTGATGTCTCCGTACGTGTGGTGG 1020
Db 1674 ACCTCCACCCGCTCTGCGGGGCTCTGCGGTGTGATGTCTCCGTACGTGTGGTGG 1733
Qy 1021 TGAGCCACAGGAGGCTGGGTTCGCGGGCGGGGATCTGCTGGACCTCGGCATCCT 1080
Db 1734 TGAGCCACAGGAGGCTGGGTTCGCGGGCGGGGATCTGCTGGACCTCGGCATCCT 1793
Qy 1081 GGATAGTGCCTTCTGCTGCCAGGTGGCCCATCCCTGTTATGGGCTCCATTTGCCA 1140
Db 1794 GGATAGTGCCTTCTGCTGCCAGGTGGCCCATCCCTGTTATGGGCTCCATTTGCCA 1853
Qy 1141 GCTCAGCAGTCTGTCTACTGCTATATGTTGTCTGCGCGAGGCCCTGGGTCTGGTGGCAT 1200
Db 1854 GCTCAGCAGTCTGTCTACTGCTATATGTTGTCTGCGCGAGGCCCTGGGTCTGGTGGCAT 1913
Qy 1201 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 1234
Db 1914 TTACTTTGCTACACAGGTAGTATTGACAAGAGC 1947

RESULT 5

US-09-838-785-1
; Sequence 1, Application US/09838785
; Patent No. US2002009455A1
; GENERAL INFORMATION:
; APPLICANT: Lau, Ted
; APPLICANT: Lin, Rick
; APPLICANT: Parkes, Debbie
; APPLICANT: Parry, Gordon
; APPLICANT: Schneider, Douglas
; APPLICANT: Steinbrecher, Renate
; APPLICANT: Van Heuit, Pam T
; APPLICANT: Wu, John
; TITLE OF INVENTION: DNA Encoding a No. US2002009455A1el PROST 03
; FILE REFERENCE: 51831AUSM1
; CURRENT APPLICATION NUMBER: US/09/838,785
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: 60/200,065
; PRIOR FILING DATE: 2000-04-27
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 3320
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (282)..(1943)
US-09-838-785-1

Query Match 100.0%; Score 1234; DB 9; Length 3320;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGCCAGGTGTCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCCGGA 60
Db 686 TGCCAGGTGTCTTCACTCCACTGGAGGCGCTCTCTGACCTCTTCCGGGACCCCGGA 745
Qy 61 CCATGTGCGCAGGCTTCTGTCTATGCTTCTATGCTTCTGAGTCTTGGGGCTGCTGGG 120
Db 746 CCATGTGCGCAGGCTTCTGTCTATGCTTCTATGCTTCTGAGTCTTGGGGCTGCTGGG 805
Qy 121 CTACCTCTCTGCTCCATTTGACTGGGACACAGTGGCTTGGCCCCCTTACCTGGGACCCCA 180
Db 806 CTACCTCTCTGCTCCATTTGACTGGGACACAGTGGCTTGGCCCCCTTACCTGGGACCCCA 865
Qy 181 GGAGGAGTGTCTTTGGCTGTCTACCTCATCTTCTACCTGCTGCTAGCAGCACAACCT 240
Db 866 GGAGGAGTGTCTTTGGCTGTCTACCTCATCTTCTACCTGCTGCTAGCAGCACAACCT 925
Qy 241 GCTGGTGGCTGAGGAGCAGCGTGGGCCCCACCGAGCCAGCAGAGGGCTGTGGGCC 300
Db 926 GCTGGTGGCTGAGGAGCAGCGTGGGCCCCACCGAGCCAGCAGAGGGCTGTGGGCC 985
Qy 301 CTCTTTGTCCGCCACCTGTCTTCCATGCCGGGCCCTTGGCTTTCCGGAACTTGGGGC 360
Db 986 CTCTTTGTCCGCCACCTGTCTTCCATGCCGGGCCCTTGGCTTTCCGGAACTTGGGGC 1045
Qy 361 CTGTCTTCCGGCTGACAGCTGTGCTGGCGGATGCTGCGGATGCTGCGGACCTTGGGCCGCTTT 420
Db 1046 CTGTCTTCCGGCTGACAGCTGTGCTGGCGGATGCTGCGGATGCTGCGGACCTTGGGCCGCTTT 1105
Qy 421 CBTGGCTGACCTGTGACAGCTGGATGGCACTCATGACCTTCACTGCTGTTTACACGATTT 480
Db 1106 CBTGGCTGACCTGTGACAGCTGGATGGCACTCATGACCTTCACTGCTGTTTACACGATTT 1165
Qy 481 CGTGGGCGAGGGCTGTACACAGGGCTGCCAGAGCTGAGCCGGGACCCGAGGCCCGGAG 540
Db 1166 CGTGGGCGAGGGCTGTACACAGGGCTGCCAGAGCTGAGCCGGGACCCGAGGCCCGGAG 1225
Qy 541 ACATATGATGAAGGCTTCCGATGGCAGCTTGGGCTGTTCTGCTGAGTGGGCTGCTC 600
Db 1226 ACATATGATGAAGGCTTCCGATGGCAGCTTGGGCTGTTCTGCTGAGTGGGCTGCTC 1285
Qy 601 CTTGCTTCTCTCTGTGATGACCGGCTGTGACAGGATTCGGGCTGCTGAGCAGTCTA 660
Db 1286 CTTGCTTCTCTCTGTGATGACCGGCTGTGACAGGATTCGGGCTGCTGAGCAGTCTA 1345
Qy 661 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCGACATGCTGCTCCACAGTGT 720
Db 1346 TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCGACATGCTGCTCCACAGTGT 1405
Qy 721 GGCCGTGTGTGACAGCTTTCAGCCGCTTACCGGGTTTCACTTCTCAGCCTTGCAGATCCT 780
Db 1406 GGCCGTGTGTGACAGCTTTCAGCCGCTTACCGGGTTTCACTTCTCAGCCTTGCAGATCCT 1465
Qy 781 GCCTTACACACTGCTCCCTTACACCGGGAGAGCAGTGTTCCTGCCAATACCG 840
Db 1466 GCCTTACACACTGCTCCCTTACACCGGGAGAGCAGTGTTCCTGCCAATACCG 1525
Qy 841 AGGGGACACTGGAGGTGTAGCAGTGGAGCAGCCTGATGACCAAGCTTTCCTGCCAGGCC 900
Db 1526 AGGGGACACTGGAGGTGTAGCAGTGGAGCAGCCTGATGACCAAGCTTTCCTGCCAGGCC 1585
Qy 901 TAAGCCTGGAGCTCCCTTCCCTAATGGACACAGTGGGTGCTGGAGGAGTGGCTGCTCCC 960
Db 1586 TAAGCCTGGAGCTCCCTTCCCTAATGGACACAGTGGGTGCTGGAGGAGTGGCTGCTCCC 1645
Qy 961 ACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGTACGTGTGGTGGG 1020
Db 1646 ACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGTACGTGTGGTGGG 1705
Qy 1021 TGAGCCACAGGAGGCTGGTTCGCGGGCGGGGATCTGCTGGACCTCGGCATCCT 1080

Db 1706 TGAGCCACAGGCGAGGGTGGTTCGGGGCCGGGCACTCGCCCTGGACCTCGGCATCCT 1765
Qy 1081 GGATAGTGCCCTTCCTGCTGCCAGTGGCCGATCCCTGTTATGGGCTCCATTGTCCA 1140
Db 1766 GGATAGTGCCCTTCCTGCTGCCAGTGGCCGATCCCTGTTATGGGCTCCATTGTCCA 1825
Qy 1141 GCTCAGGCAGTCTGTCACTGCTATATATGTTGTCTGCGCCAGGCTTGGGTCTGGTCCGCAT 1200
Db 1826 GCTCAGGCAGTCTGTCACTGCTATATATGTTGTCTGCGCCAGGCTTGGGTCTGGTCCGCAT 1885
Qy 1201 TTACTTTGCTACACAGGTAGTATTGACAAGGC 1234
Db 1886 TTACTTTGCTACACAGGTAGTATTGACAAGGC 1919

RESULT 6

US-10-936-626-21
; Sequence 21, Application US/10936626
; Publication No. US20050106644A1
; GENERAL INFORMATION:
; APPLICANT: Cairns, Belinda
; APPLICANT: Chen, Ruihuan
; APPLICANT: Frantz, Gretchen
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Koepfen, Hartmut
; APPLICANT: Phillips, Heidi S.
; APPLICANT: Polakis, Paul
; APPLICANT: Spencer, Susan D.
; APPLICANT: Smith, Victoria
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wu, Thomas D.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Compositions and Methods for the Diagnosis and
; TITLE OF INVENTION: Treatment of Tumor
; FILE REFERENCE: P5001RPI
; CURRENT APPLICATION NUMBER: US/10/936,626
; PRIOR FILING DATE: 2004-09-08
; PRIOR FILING DATE: 2004-06-21
; PRIOR FILING DATE: 2004-06-21
; PRIOR FILING DATE: 2004-06-21
; PRIOR FILING DATE: 2002-09-11
; PRIOR FILING DATE: 2002-09-11
; PRIOR FILING DATE: 2002-06-19
; PRIOR FILING DATE: 2002-06-19
; PRIOR FILING DATE: 2001-06-20
; PRIOR FILING DATE: 2001-06-20
; PRIOR FILING DATE: 2001-06-29
; PRIOR FILING DATE: 2001-09-18
; PRIOR FILING DATE: 2001-09-18
; PRIOR FILING DATE: 2004-03-26
; PRIOR FILING DATE: 2004-08-04
; NUMBER OF SEQ ID NOS: 154
; SEQ ID NO 21
; LENGTH: 3332
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-936-626-21

Query Match 100.0%; Score 1234; DB 21; Length 3332;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGGCAGGTGTGCTTCACTCCACCTGGAGGCCCTGTCTCTGACCTTTCGGGACCCGGA 60
Db 694 TGGCAGGTGTGCTTCACTCCACCTGGAGGCCCTGTCTCTGACCTTTCGGGACCCGGA 753
Qy 61 CCATGTGCGCAGGCTACTGTCTATATGCTTATGATCAGTCTGGGGGCTGCTGGG 120

Db 754 CCACTGTGCGCAGGCCCTACTCTGTCTATGCTTCAATGATCAGTCTTGGGGGCTGCTGGG 813
Qy 121 CTACTCTCTGCTGCCATTGACTGGGACACACAGTGGCCCTGGCCCCCTACCTGGGGCACCACA 180
Db 814 CTACTCTCTGCTGCCATTGACTGGGACACACAGTGGCCCTGGCCCCCTACCTGGGGCACCACA 873
Qy 181 GGAGAGTGGCTCTTTTGGCCTGTGCTCACCTCATCTTCTCACCTGCGTGGAGGACACT 240
Db 874 GGAGAGTGGCTCTTTTGGCCTGTGCTCACCTCATCTTCTCACCTGCGTGGAGGACACT 933
Qy 241 GCTGGTGGCTGAGAGGACGCGCTGGGCCCCACCGAGCAGCAGAGGGCTGTGGGCCCC 300
Db 934 GCTGGTGGCTGAGAGGACGCGCTGGGCCCCACCGAGCAGCAGAGGGCTGTGGGCCCC 993
Qy 301 CTCTTGTGCGCCCACTGTGCTCATGCGGGCCGCTTGGCTTTCCGGAACTTGGGGGC 360
Db 994 CTCTTGTGCGCCCACTGTGCTCATGCGGGCCGCTTGGCTTTCCGGAACTTGGGGGC 1053
Qy 361 CTGCTTCCCGGCTGCACAGCTGTGCTGCCGATGCCCGCACCTCTGCGCCGCTCTT 420
Db 1054 CTGCTTCCCGGCTGCACAGCTGTGCTGCCGATGCCCGCACCTCTGCGCCGCTCTT 1113
Qy 421 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTCACTGCTGTTTACACGGATT 480
Db 1114 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTCACTGCTGTTTACACGGATT 1173
Qy 481 CGTGGCGAGGGGCTGTACAGAGGCGTGCACAGAGCTGAGCGGGCCACCGAGGCCCCGAG 540
Db 1174 CGTGGCGAGGGGCTGTACAGAGGCGTGCACAGAGCTGAGCGGGCCACCGAGGCCCCGAG 1233
Qy 541 ACATATGATGAAGGCGTTCGGATGGCAGCCTGGGGCTGTTCCTGAGTGGCCATCTC 600
Db 1234 ACATATGATGAAGGCGTTCGGATGGCAGCCTGGGGCTGTTCCTGAGTGGCCATCTC 1293
Qy 601 CTTGGTCTTCTCTGCTGATGGACCGGCTGGTGCAGGGATTGGCACTCCGACAGTCTA 660
Db 1294 CTTGGTCTTCTCTGCTGATGGACCGGCTGGTGCAGGGATTGGCACTCCGACAGTCTA 1353
Qy 661 TTTGGCCAGTGTGGCAGCTTCCCTGTGGGTGCCGGTGCACATGCTGCTGCCCAATACCG 720
Db 1354 TTTGGCCAGTGTGGCAGCTTCCCTGTGGGTGCCGGTGCACATGCTGCTGCCCAATACCG 1413
Qy 721 GGCGTGGTGACAGCTTCAGCGCCCTCACCGGTTTCACTTCTCAGCCCTGCGAGATCCT 780
Db 1414 GGCGTGGTGACAGCTTCAGCGCCCTCACCGGTTTCACTTCTCAGCCCTGCGAGATCCT 1473
Qy 781 GCCCTACACACTGGCCTCCCTTACACCGGGAAGCAGGTGTTCTTGGCCCAATACCG 840
Db 1474 GCCCTACACACTGGCCTCCCTTACACCGGGAAGCAGGTGTTCTTGGCCCAATACCG 1533
Qy 841 AGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACACAGCTTCTTCCAGGCCCC 900
Db 1534 AGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACACAGCTTCTTCCAGGCCCC 1593
Qy 901 TAAGCCTGGAGCTCCCTTCCCTTAATGAGACAGTGGGTGCTGGAGGAGTGGCTGCTCCC 960
Db 1594 TAAGCCTGGAGCTCCCTTCCCTTAATGAGACAGTGGGTGCTGGAGGAGTGGCTGCTCCC 1653
Qy 961 ACCTCACACCGCCTGCGGGGCTCTGCTGCTGATGATGCTCCCTGCTGCTGCTGGTGGG 1020
Db 1654 ACCTCACACCGCCTGCGGGGCTCTGCTGCTGATGATGCTCCCTGCTGCTGCTGGTGGG 1713
Qy 1021 TGAGCCCAACGAGGCCAGGGTGGTTCCGGGGCCGGGCACTCTGCTGGACCTCGCCATCCT 1080
Db 1714 TGAGCCCAACGAGGCCAGGGTGGTTCCGGGGCCGGGCACTCTGCTGGACCTCGCCATCCT 1773
Qy 1081 GGATAGTGGCTTCTGCTGCTCCAGGTGGCCCCATCCCTGTTTATGGGCTCCATTGTCCA 1140
Db 1774 GGATAGTGGCTTCTGCTGCTCCAGGTGGCCCCATCCCTGTTTATGGGCTCCATTGTCCA 1833
Qy 1141 GCTCAGCAGTCTGCTCACTATATGCTGCTGCGCAGGCGCTGGGCTCTGGTGGCCAT 1200
Db 1834 GCTCAGCAGTCTGCTCACTATATATGCTGCTGCGCAGGCGCTGGGCTCTGGTGGCCAT 1893


```

US-09-745-288-100
; Sequence 100, Application US/09745288
; Patent No. US20010018058A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.446D1
; CURRENT APPLICATION NUMBER: US/09/745,288
; CURRENT FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-745-288-100

Query Match 100.0%; Score 1234; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGGCCAGGTGTGCTTCACTCCACTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 60
DB 688 TGGCCAGGTGTGCTTCACTCCACTGGAGGCCCTGCTCTCTGACCTCTTCCGGGACCCGGA 747
QY 61 CCACGTGTGCGCAGGCTACTGTCTATGCTCTTCAATGATGATGCTTTGGGGGCTGCTGGG 120
DB 748 CCACGTGTGCGCAGGCTACTGTCTATGCTCTTCAATGATGATGCTTTGGGGGCTGCTGGG 807
QY 121 CTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 180
DB 808 CTACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 867
QY 181 GGAGGAGTGCCTTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 868 GGAGGAGTGCCTTTTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 927
QY 241 GCTGTGTGCTGAGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 300
DB 928 GCTGTGTGCTGAGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 987
QY 301 CTCCTTTGCGCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
DB 988 CTCCTTTGCGCCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1047
QY 361 CTTGCTTCCCGGCTGCAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
DB 1048 CTTGCTTCCCGGCTGCAACAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1107
QY 421 CGTGCTGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
DB 1108 CGTGCTGAGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1167
QY 481 CGTGCGGAGGGGCTGTACAGGGGCTGTACAGGGGCTGTACAGGGGCTGTACAGGGGCTGTACAG 540
DB 1168 CGTGCGGAGGGGCTGTACAGGGGCTGTACAGGGGCTGTACAGGGGCTGTACAGGGGCTGTACAG 1227
QY 541 ACATATGATGAAGCGTTCGGATGGGAGCGCTGGGGCTGTTTCTGCAAGTGGCCATCTC 600
DB 1228 ACATATGATGAAGCGTTCGGATGGGAGCGCTGGGGCTGTTTCTGCAAGTGGCCATCTC 1287
QY 601 CTTGCTTCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 660
DB 1288 CTTGCTTCTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1347
QY 661 TTTGGCCAGTGTGGCAGCTTTTCCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 720
DB 1348 TTTGGCCAGTGTGGCAGCTTTTCCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1407
QY 721 GGCCGTGTGTGACAGCTTTCAGCCGCCCTCAGCCGGGTTTACCTTCTCAGCCCTGCGATCCT 780

```

```

DB 1408 GGCCGTGTGTGACAGCTTTCAGCCGCCCTCAGCCGGGTTTCACTTCTCAGCCCTGCGATCCT 1467
QY 781 GCCCTACACACTGGCCTCCCTCTTACCAACCGGAGAGCAGGCTTCTTCCGCGCAATACCG 840
DB 1468 GCCCTACACACTGGCCTCCCTCTTACCAACCGGAGAGCAGGCTTCTTCCGCGCAATACCG 1527
QY 841 AGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCAAGCTTCTTCCGCGAGGCC 900
DB 1528 AGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCAAGCTTCTTCCGCGAGGCC 1587
QY 901 TAAGCCTGGAGCTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGGAGTGGCTGCTGCC 960
DB 1588 TAAGCCTGGAGCTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGGAGTGGCTGCTGCC 1647
QY 961 ACCTCCACCCGCGCTCTGCGGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
DB 1648 ACCTCCACCCGCGCTCTGCGGGGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1707
QY 1021 TGAGCCCAACGAGGCCAGGGTGGTTCCGGGCGCGGGGATCTGCTGCACTTGGACCTCGCCATCCT 1080
DB 1708 TGAGCCCAACGAGGCCAGGGTGGTTCCGGGCGCGGGGATCTGCTGCACTTGGACCTCGCCATCCT 1767
QY 1081 GGATAGTGCCTTCTGCTGCTCCAGGTGGCCCCATCCCTGTTTATGGGCTCATTTGTCCA 1140
DB 1768 GGATAGTGCCTTCTGCTGCTCCAGGTGGCCCCATCCCTGTTTATGGGCTCATTTGTCCA 1827
QY 1141 GCTCAGCAGCTCTCACTGCTATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
DB 1828 GCTCAGCAGCTCTCACTGCTATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1887
QY 1201 TTACTTTGTACACAGGTAGTATTTGACAAGAGC 1234
DB 1888 TTACTTTGTACACAGGTAGTATTTGACAAGAGC 1921

```

```

RESULT 9
US-09-759-143-110
; Sequence 110, Application US/09759143
; Patent No. US20020022248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Barrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-759-143-110

Query Match 100.0%; Score 1234; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;

```


Db 928 GCTGGTGGCTGAGGAGCGCTGGGCCCAACCGAGCAGCAGAGGGCTGTGCGGCC 987
Qy 301 CTCCTTGTGCGCCCACTGCTGTCATGCGGGCCGCTTGGCTTTCGGAACCTGGGGCG 360
Db 988 CTCCTTGTGCGCCCACTGCTGTCATGCGGGCCGCTTGGCTTTCGGAACCTGGGGCG 1047
Qy 361 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 420
Db 1048 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 1107
Qy 421 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 480
Db 1108 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 1167
Qy 481 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 540
Db 1168 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 1227
Qy 541 ACATATGATGAAGGGCTTCGATGGGAGCTTGGGGCTGTTCCTGCACTGGCCATCTC 600
Db 1228 ACATATGATGAAGGGCTTCGATGGGAGCTTGGGGCTGTTCCTGCACTGGCCATCTC 1287
Qy 601 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 660
Db 1288 CTTGCTTCCCCTGGCTGCAACAGCTGTGTCGCGCATGCCCCGACACCTTGGCGCGCTCT 1347
Qy 661 TTTGGCCAGTGTGGAGCTTTCCTGCTGGCTGCGGAGCAGCTGCTGCTGCTGCTGCTGCT 720
Db 1348 TTTGGCCAGTGTGGAGCTTTCCTGCTGGCTGCGGAGCAGCTGCTGCTGCTGCTGCTGCT 1407
Qy 721 GGCCTGTGTGACAGCTTTCAGCGCGCTTCAACCGGGTTCACCTTCTCAGCCCTGCAATCCT 780
Db 1408 GGCCTGTGTGACAGCTTTCAGCGCGCTTCAACCGGGTTCACCTTCTCAGCCCTGCAATCCT 1467
Qy 781 GGCCTGTGTGACAGCTTTCAGCGCGCTTCAACCGGGTTCACCTTCTCAGCCCTGCAATCCT 840
Db 1468 GGCCTGTGTGACAGCTTTCAGCGCGCTTCAACCGGGTTCACCTTCTCAGCCCTGCAATCCT 1527
Qy 841 AGGGAGACCTGGAGGTGTGAGCAGTGGAGCAGCTGTGAGCAGCTTCTGCGCAGGCCC 900
Db 1528 AGGGAGACCTGGAGGTGTGAGCAGTGGAGCAGCTGTGAGCAGCTTCTGCGCAGGCCC 1587
Qy 901 TAAGCCTGGAGCTTCCCTTCCCTTAATGGAACAGCTGGGTGCTGAGCAGTGGCTGCTCCC 960
Db 1588 TAAGCCTGGAGCTTCCCTTCCCTTAATGGAACAGCTGGGTGCTGAGCAGTGGCTGCTCCC 1647
Qy 961 ACTTCACCGCGCTGCTGGGGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1020
Db 1648 ACTTCACCGCGCTGCTGGGGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1707
Qy 1021 TGAGCCACCGAGGCGAGGGTGGTTCGGGGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
Db 1708 TGAGCCACCGAGGCGAGGGTGGTTCGGGGCGGGGCTGCTGCTGCTGCTGCTGCTGCTGCT 1767
Qy 1081 GGATAGTGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
Db 1768 GGATAGTGGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1827
Qy 1141 GCTCAGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
Db 1828 GCTCAGCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1887
Qy 1201 TTTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1234
Db 1888 TTTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1921

RESULT 11

US-09-030-606-110

; Sequence 110, Application US/09030606

; Patent No. US20020081580A1

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS F
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030.606
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.428C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-030-606-110

Query Match 100.0%; Score 1234; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGGCAGGTGTGCTTCACTCCACTGGAGGCGCTCTCTCTGACCTCTTCCGGGACCCGGA 60
Db 688 TGGCAGGTGTGCTTCACTCCACTGGAGGCGCTCTCTCTGACCTCTTCCGGGACCCGGA 747
Qy 61 CCATGTGCGCAGGCTTACTCTGTATGCTTCTATGATCAGTCTTGGGGGCTGCTGGG 120
Db 748 CCATGTGCGCAGGCTTACTCTGTATGCTTCTATGATCAGTCTTGGGGGCTGCTGGG 807
Qy 121 CTACCTCTGCTGCCATTGACTGGGACACCAAGTGCCTGCCCCCTTACCTGGGACCCCA 180
Db 808 CTACCTCTGCTGCCATTGACTGGGACACCAAGTGCCTGCCCCCTTACCTGGGACCCCA 867
Qy 181 GGAGAGTGTCTTTGGCCCTGCTCACCTCATCTTCTCTACCTGCTGAGAGCCACT 240
Db 868 GGAGAGTGTCTTTGGCCCTGCTCACCTCATCTTCTCTACCTGCTGAGAGCCACT 927
Qy 241 GCTGTGCTCAGAGGAGGCGCTGGGCCCCCAGAGCAGCAGAGGGCTGTGCGGCC 300
Db 928 GCTGTGCTCAGAGGAGGCGCTGGGCCCCCAGAGCAGCAGAGGGCTGTGCGGCC 987
Qy 301 CTCCTTGTGCGCCCACTGCTGCTCCATGCGGGGCGCTTGGCTTTCGGAACCTGGGGCG 360
Db 988 CTCCTTGTGCGCCCACTGCTGCTCCATGCGGGGCGCTTGGCTTTCGGAACCTGGGGCG 1047
Qy 361 CCTGCTTCCCCTGGCTGCAACAGCTGTGCTGCGCATGCCCCGACACCTTGGCGCGCTCT 420
Db 1048 CCTGCTTCCCCTGGCTGCAACAGCTGTGCTGCGCATGCCCCGACACCTTGGCGCGCTCT 1107
Qy 421 CGTGTGCTGAGCTGTGAGCTGGAGCTCATGACCTTTCACGCTGTTTTACACGGATTT 480
Db 1108 CGTGTGCTGAGCTGTGAGCTGGAGCTCATGACCTTTCACGCTGTTTTACACGGATTT 1167

QY 481 CGTGGCGAGGGGCTGTACACAGGGCGTGCCAGAGCTGAGCCGGCACCGAGGCCCGGAG 540
DB 1168 CGTGGCGAGGGGCTGTACACAGGGCGTGCCAGAGCTGAGCCGGCACCGAGGCCCGGAG 1227
QY 541 ACATATGATGAAGCGGTTCGATGGGAGCGCTGGGGCTGTCTGCAAGTGGCCATCTC 600
DB 1228 ACATATGATGAAGCGGTTCGATGGGAGCGCTGGGGCTGTCTGCAAGTGGCCATCTC 1287
QY 601 CCTGGTCTTCTCTGCTCATGGACCGGCTGGTGGTGGGATTCGGCACTGAGCAGTCTA 660
DB 1288 CCTGGTCTTCTCTGCTCATGGACCGGCTGGTGGTGGGATTCGGCACTGAGCAGTCTA 1347
QY 661 TTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGGCGGTGGCCACATGCTGCTCCACAGTGT 720
DB 1348 TTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGGCGGTGGCCACATGCTGCTCCACAGTGT 1407
QY 721 GGCCGTGGTGAAGCTTTCAGCGCCCTTACCGGGTTCACCTTCTCAGCCCTGCAAGTCTT 780
DB 1408 GGCCGTGGTGAAGCTTTCAGCGCCCTTACCGGGTTCACCTTCTCAGCCCTGCAAGTCTT 1467
QY 781 GCCCTACACACTGGGCTCCCTTACCAACCGGGAGAGCAGGTGTCTTCCGCCAATACCG 840
DB 1468 GCCCTACACACTGGGCTCCCTTACCAACCGGGAGAGCAGGTGTCTTCCGCCAATACCG 1527
QY 841 AGGGGACACTGGAGGTGTAGCAGTGAGGACAGCTGATGACACAGCTTCTTCCGCCAGGCC 900
DB 1528 AGGGGACACTGGAGGTGTAGCAGTGAGGACAGCTGATGACACAGCTTCTTCCGCCAGGCC 1587
QY 901 TAAGCCTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGCTGGAGGCAAGTGGCTGCTCCC 960
DB 1588 TAAGCCTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGCTGGAGGCAAGTGGCTGCTCCC 1647
QY 961 ACCTCCACCGGCTCTGCGGGGCTCTGCGGTGTGATGCTCCGTGATGCTGCTGCTGCTGCTG 1020
DB 1648 ACCTCCACCGGCTCTGCGGGGCTCTGCGGTGTGATGCTCCGTGATGCTGCTGCTGCTGCTG 1707
QY 1021 TGAGCCACACGAGGCCAGGGTGTTCGGGGCGGGGCGATCTGCTGAGACCTCGCCATCCT 1080
DB 1708 TGAGCCACACGAGGCCAGGGTGTTCGGGGCGGGGCGATCTGCTGAGACCTCGCCATCCT 1767
QY 1081 GGATAGTGCCCTTCTGCTGCTCCAGGTGGCCCAATCCCTGTTTATGGGCTCCATTTGCCA 1140
DB 1768 GGATAGTGCCCTTCTGCTGCTCCAGGTGGCCCAATCCCTGTTTATGGGCTCCATTTGCCA 1827
QY 1141 GCTCAGCAGTCTGCTACTGCTATATGTTGTCTGCGCAGGCCCTGGGTCTGGTGGCAT 1200
DB 1828 GCTCAGCAGTCTGCTACTGCTATATGTTGTCTGCGCAGGCCCTGGGTCTGGTGGCAT 1887
QY 1201 TTACTTTGCTACAGGTAGTATTGACAAGGC 1234
DB 1888 TTACTTTGCTACAGGTAGTATTGACAAGGC 1921

RESULT 12

US-09-822-827-110
; Sequence 110, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-822-827-110

Query Match 100.0%; Score 1234; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TGCGCAGGTGTGCTTCACTCCACTTGAGAGCCCTGCTCTCTGACCTCTTCCGGGACCCGGGA 60
DB 688 TGCGCAGGTGTGCTTCACTCCACTTGAGAGCCCTGCTCTCTGACCTCTTCCGGGACCCGGGA 747
QY 61 CCACTGTGCGCAGCGCTACTCTGTCTATGCTTTCATGATCAGTCTTCCGGGGCTGCTGGG 120
DB 748 CCACTGTGCGCAGCGCTACTCTGTCTATGCTTTCATGATCAGTCTTCCGGGGCTGCTGGG 807
QY 121 CTACCTCTGCTGCTGCTTCACTTGAGACACAGTGGCCCTGCGCCCTTACCTTGGGACACCCA 180
DB 808 CTACCTCTGCTGCTGCTTCACTTGAGACACAGTGGCCCTGCGCCCTTACCTTGGGACACCCA 867
QY 181 G3AGGAGTGTCTTTTGGCCCTGCTACCTCATCTTCTCTCACTGCTGCTAGGACCACT 240
DB 868 G3AGGAGTGTCTTTTGGCCCTGCTACCTCATCTTCTCTCACTGCTGCTAGGACCACT 927
QY 241 GCTGTGGCTGAGGAGCGCTGGGCCCCACCGAGCCAGCAGAGGGCTGTGCGGCC 300
DB 928 GCTGTGGCTGAGGAGCGCTGGGCCCCACCGAGCCAGCAGAGGGCTGTGCGGCC 987
QY 301 CTCTTGTTCGCCCCACTGCTGTCCATGTCGCGGGCCGCTTGGCTTTCGCGAACCTTGGGCGC 360
DB 988 CTCTTGTTCGCCCCACTGCTGTCCATGTCGCGGGCCGCTTGGCTTTCGCGAACCTTGGGCGC 1047
QY 361 CTCTTGTTCGCCCGGTGACCACTGCTGTCCGCGATGCCCCGACCTTGGCGCGGCTCTT 420
DB 1048 CTCTTGTTCGCCCGGTGACCACTGCTGTCCGCGATGCCCCGACCTTGGCGCGGCTCTT 1107
QY 421 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTCACTGCTGTTTACACGAGTTT 480
DB 1108 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTCACTGCTGTTTACACGAGTTT 1167
QY 481 CGTGGGCGAGGGCTGTACACAGGGCGTCCAGAGCTGAGCCGGGACACCGAGGCCCGGAG 540
DB 1168 CGTGGGCGAGGGCTGTACACAGGGCGTCCAGAGCTGAGCCGGGACACCGAGGCCCGGAG 1227
QY 541 ACATATGATGAAGCGGTTCGATGGGAGCGCTGGGGCTGTCTGCAAGTGGCCATCTC 600
DB 1228 ACATATGATGAAGCGGTTCGATGGGAGCGCTGGGGCTGTCTGCAAGTGGCCATCTC 1287
QY 601 CTTGCTTCTCTCTGCTCATGACCGGCTGGTGGCACTGCGGCACTGAGCAGTCTA 660
DB 1288 CTTGCTTCTCTCTGCTCATGACCGGCTGGTGGCACTGCGGCACTGAGCAGTCTA 1347
QY 661 TTTGGCCAGTGTGGCAGCTTTCCCTGCTGCTGCGGGTCCACATGCTGCTGCCACAGTGT 720
DB 1348 TTTGGCCAGTGTGGCAGCTTTCCCTGCTGCTGCGGGTCCACATGCTGCTGCCACAGTGT 1407
QY 721 GGCGGTGGTGAAGCTTTCAGCCCGCTTACCGGGTTCACCTTCTCAGCCCTGCAAGTCTT 780
DB 1408 GGCGGTGGTGAAGCTTTCAGCCCGCTTACCGGGTTCACCTTCTCAGCCCTGCAAGTCTT 1467
QY 781 GCCTTACACACTGGCCTCCCTTACCAACCGGGAGAGCAGGTGTCTTCCGCCAATACCG 840
DB 1468 GCCTTACACACTGGCCTCCCTTACCAACCGGGAGAGCAGGTGTCTTCCGCCAATACCG 1527
QY 841 AGGGGACACTGGAGGTGTAGCAGTGAGGACAGCTGATGACACAGCTTCTTCCGCCAGGCC 900
DB 1528 AGGGGACACTGGAGGTGTAGCAGTGAGGACAGCTGATGACACAGCTTCTTCCGCCAGGCC 1587
QY 901 TAAGCCTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGCTGGAGGCAAGTGGCTGCTCCC 960
DB 1588 TAAGCCTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGCTGGAGGCAAGTGGCTGCTCCC 1647
QY 961 ACCTCCACCGGCTCTGCGGGGCTCTGCGGTGTGATGCTCCGTGATGCTGCTGCTGCTGCTG 1020
DB 1648 ACCTCCACCGGCTCTGCGGGGCTCTGCGGTGTGATGCTCCGTGATGCTGCTGCTGCTGCTG 1707
QY 1021 TGAGCCACACGAGGCCAGGGTGTTCGGGGCGGGGCGATCTGCTGAGACCTCGCCATCCT 1080

Db 1708 TGAGGCCACCGAGGCGAGGGTGGTTCCGGCCCGGGGCATCTGCTGGACCTCGCCATCCT 1767
QY 1081 GGATAGTGCTTCTGCTGCTCCAGGTGGCCCATCCCTGTTTATGGGCTCCATGTCCA 1140
Db 1768 GGATAGTGCTTCTGCTGCTCCAGGTGGCCCATCCCTGTTTATGGGCTCCATGTCCA 1827
QY 1141 GCTAGCCAGTGTGCTCACTGCTATATGATGTGCTGCGCAGGCTGGGTCTGGTGCCTAT 1200
Db 1828 GCTAGCCAGTGTGCTCACTGCTATATGATGTGCTGCGCAGGCTGGGTCTGGTGCCTAT 1887
QY 1201 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1234
Db 1888 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1921

RESULT 13
US-09-115-453-110
; Sequence 110, Application US/09115453B
; Patent No. US20020090372A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-115-453-110

Query Match 100.0%; Score 1234; DB 9; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1234; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGCCAGGTGTGCTTCACTCCAGCTGGAGGCCCTGCTCTGACCTCTTCCGGGACCCGGA 60
Db 688 TGCCAGGTGTGCTTCACTCCAGCTGGAGGCCCTGCTCTGACCTCTTCCGGGACCCGGA 747
QY 61 CCACTGTGCCAGGCTACTCTGTATGCTTATGATCACTGTGGGGGCTGCTGGG 120
Db 748 CCACTGTGCCAGGCTACTCTGTATGCTTATGATCACTGTGGGGGCTGCTGGG 807
QY 121 CTACCTCTGCTGCCATTGACTGGGACACCAAGTCCCTGGCCCCCTACCTGGGACCCA 180
Db 808 CTACCTCTGCTGCCATTGACTGGGACACCAAGTCCCTGGCCCCCTACCTGGGACCCA 867
QY 181 GGAGAGTGCTTCTTGGGCTGCTACCTCATCTTCTCAGCTGCTAGCAGCCACT 240
Db 868 GGAGAGTGCTTCTTGGGCTGCTACCTCATCTTCTCAGCTGCTAGCAGCCACT 927
QY 241 GCTGTGGCTGAGGAGGAGGCTGGGCCCCACAGCAGCAGAGGCTGTGGGCCCC 300
Db 928 GCTGTGGCTGAGGAGGAGGCTGGGCCCCACAGCAGCAGAGGCTGTGGGCCCC 987
QY 301 CTCTTGTGGCCCACTGCTGTCATGCGGGCCGCTTGGCTTTCGGAACTGGGGCC 360
Db 988 CTCTTGTGGCCCACTGCTGTCATGCGGGCCGCTTGGCTTTCGGAACTGGGGCC 1047
QY 361 CTTGCTTCCCGGCTGCACTGCTGCTGCGGATGCGGACCCCTGCGCGGCTTT 420
Db 1048 CTTGCTTCCCGGCTGCACTGCTGCTGCGGATGCGGACCCCTGCGCGGCTTT 1107
QY 421 CTTGCTTCCCGGCTGCACTGCTGCTGCGGATGCGGACCCCTGCGCGGCTTT 480
Db 1108 CTTGCTTCCCGGCTGCACTGCTGCTGCGGATGCGGACCCCTGCGCGGCTTT 1167
QY 481 CTTGCTTCCCGGCTGCACTGCTGCTGCGGATGCGGACCCCTGCGCGGCTTT 540

Db 1168 CGTGGCGAGGGCTGTACACAGGCGTGGCCAGAGCTGAGCGGGCACCGAGGCCCGGAG 1227
QY 541 ACATATGATGAAGCGCTTCGGATGGGACGCTGGGCTGTTCTGCAAGTGGCCATCTC 600
Db 1228 ACATATGATGAAGCGCTTCGGATGGGACGCTGGGCTGTTCTGCAAGTGGCCATCTC 1287
QY 601 CCTGGTCTTCTCTCTGCTATGAGACCGGCTGGTGCAGCGATTCCGGCACTCGAGCAGTCTA 660
Db 1288 CCTGGTCTTCTCTCTGCTATGAGACCGGCTGGTGCAGCGATTCCGGCACTCGAGCAGTCTA 1347
QY 661 TTTGGCCAGTGTGCAAGCTTTCTCTGCTGCTGCGGTGCCAGATGCTGTCCTGTCACAGTGT 720
Db 1348 TTTGGCCAGTGTGCAAGCTTTCTCTGCTGCTGCGGTGCCAGATGCTGTCCTGTCACAGTGT 1407
QY 721 GGCGTGGTGAAGCTTTACCGCGGCTTACCGGGTTCACCTTCTCAGCCCTGCAAGATCCT 780
Db 1408 GGCGTGGTGAAGCTTTACCGCGGCTTACCGGGTTCACCTTCTCAGCCCTGCAAGATCCT 1467
QY 781 GCCCTACACACTGGCCCTCCCTTACACACCGGGAGAGCAGGTGTTCTGCCCCAAATACCG 840
Db 1468 GCCCTACACACTGGCCCTCCCTTACACACCGGGAGAGCAGGTGTTCTGCCCCAAATACCG 1527
QY 841 AGGGGACACTGGAGGTGCTAGCAGTGAAGCAGCCTGATGACAGCTTCTGCGCAGGCC 900
Db 1528 AGGGGACACTGGAGGTGCTAGCAGTGAAGCAGCCTGATGACAGCTTCTGCGCAGGCC 1587
QY 901 TAAGCCTGGAGCTCCCTTCCCTAATGACACGCTGGGTGCTGGAGGAGTGGCTGCTCCC 960
Db 1588 TAAGCCTGGAGCTCCCTTCCCTAATGACACGCTGGGTGCTGGAGGAGTGGCTGCTCCC 1647
QY 961 ACCTTCCACCGCGCTCTGCGGGGCTTGCCTGTGATGTCTCCCTAGCTGTGCTGGTGGG 1020
Db 1648 ACCTTCCACCGCGCTCTGCGGGGCTTGCCTGTGATGTCTCCCTAGCTGTGCTGGTGGG 1707
QY 1021 TGAGCCACAGAGCCAGGGTGGTTCGGGCGGGGCACTGCTGAGACCTGCGCATCT 1080
Db 1708 TGAGCCACAGAGCCAGGGTGGTTCGGGCGGGGCACTGCTGAGACCTGCGCATCT 1767
QY 1081 GGATAGTGCTTCTGCTGCTCCAGGTGGCCCCCATCCCTGTTATGGCTCCATTGTCCA 1140
Db 1768 GGATAGTGCTTCTGCTGCTCCAGGTGGCCCCCATCCCTGTTATGGCTCCATTGTCCA 1827
QY 1141 GCTCAGCAGTCTGCTCACTGCTATATGCTGCTGCGCGCAGGCTGGGTCTGGTGGCCAT 1200
Db 1828 GCTCAGCAGTCTGCTCACTGCTATATGCTGCTGCGCGCAGGCTGGGTCTGGTGGCCAT 1887

RESULT 14
US-09-232-880-110
; Sequence 110, Application US/09232880
; Publication No. US20020182596A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C6
; CURRENT APPLICATION NUMBER: US/09/232,880
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-880-110

Query Match		100.0%;	Score 1234;	DB 9;	Length 3410;	
Best Local Similarity		100.0%;	Pred. No. 0;			
Matches 1234;		Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;
Qy	1	TGGCAGGTTGCTTCACTCCACTGGAGGCCCTCTCTCTGACCTCTTCCGGGACCCGGA	60			
Db	688	TGGCAGGTTGCTTCACTCCACTGGAGGCCCTCTCTCTGACCTCTTCCGGGACCCGGA	747			
Qy	61	CCACTGTGCGCAGGCTTACTCTGTCTATGCTTATGATAGTCTTGGGGGCTCCCTGGG	120			
Db	748	CCACTGTGCGCAGGCTTACTCTGTCTATGCTTATGATAGTCTTGGGGGCTCCCTGGG	807			
Qy	121	CTACTCTGCTGCCATTGACTGGGACACAGTGCCTTGGCCCCCTTACCTGGGACCCCA	180			
Db	808	CTACTCTGCTGCCATTGACTGGGACACAGTGCCTTGGCCCCCTTACCTGGGACCCCA	867			
Qy	181	GGAGGAGTGCTTTTGGCCTGCTCACCTCATCTTCTCACTGCTAGGACCACT	240			
Db	868	GGAGGAGTGCTTTTGGCCTGCTCACCTCATCTTCTCACTGCTAGGACCACT	927			
Qy	241	GCTGGTGGCTGAGGAGGAGGCTGGGCCCCACCGAGCCAGCAGAAGGCTGTCGGGCC	300			
Db	928	GCTGGTGGCTGAGGAGGAGGCTGGGCCCCACCGAGCCAGCAGAAGGCTGTCGGGCC	987			
Qy	301	CTCCTTGTGCGCCCACTGCTGTCCATGCGGGGCCGCTTGGCTTTCCGGAACTGGGCGC	360			
Db	988	CTCCTTGTGCGCCCACTGCTGTCCATGCGGGGCCGCTTGGCTTTCCGGAACTGGGCGC	1047			
Qy	361	CTGCTTCCCGGCTGACAGCTGTGTGTCGCGATGCGCCGACCTTGGCCGCTCTT	420			
Db	1048	CTGCTTCCCGGCTGACAGCTGTGTGTCGCGATGCGCCGACCTTGGCCGCTCTT	1107			
Qy	421	CGTGGCTGAGCTGTGAGCTGAGTGGCACTCATCACTTCACTGCTTTTACAGGATTT	480			
Db	1108	CGTGGCTGAGCTGTGAGCTGAGTGGCACTCATCACTTCACTGCTTTTACAGGATTT	1167			
Qy	481	CGTGGGCGAGGGGCTGTACAGGGCGTGCCAGAGCTGAGCGGGCACCGAGGCCCGGAG	540			
Db	1168	CGTGGGCGAGGGGCTGTACAGGGCGTGCCAGAGCTGAGCGGGCACCGAGGCCCGGAG	1227			
Qy	541	ACACTATGATGAGGCGTTGGATGGGAGGCTGGGCTGTCTTCTGAGTGGGCATCTC	600			
Db	1228	ACACTATGATGAGGCGTTGGATGGGAGGCTGGGCTGTCTTCTGAGTGGGCATCTC	1287			
Qy	601	CTGTGCTTCTCTCTGTGTCAGCGCTGTGTCAGCGATTCGGCACTCGAGCAGCTA	660			
Db	1288	CTGTGCTTCTCTCTGTGTCAGCGCTGTGTCAGCGATTCGGCACTCGAGCAGCTA	1347			
Qy	661	TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATGSCCTGTCCCAAGTGT	720			
Db	1348	TTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATGSCCTGTCCCAAGTGT	1407			
Qy	721	GGCGGTGGTGAAGCTTTCAGCGCCCTTACCGGGTTTCACTTCTCAGCGCTTGCAGATCCT	780			
Db	1408	GGCGGTGGTGAAGCTTTCAGCGCCCTTACCGGGTTTCACTTCTCAGCGCTTGCAGATCCT	1467			
Qy	781	GCCCTACACAGTGCCTTCCCTTACACCGGGAGAGGAGGCTGTTCCGTCCTCAATACCG	840			
Db	1468	GCCCTACACAGTGCCTTCCCTTACACCGGGAGAGGAGGCTGTTCCGTCCTCAATACCG	1527			
Qy	841	AGGGACACTGGAGTGTAGCAGTGAAGCAGGCTTATGACCAAGCTTCTTCCGAGGCC	900			
Db	1528	AGGGACACTGGAGTGTAGCAGTGAAGCAGGCTTATGACCAAGCTTCTTCCGAGGCC	1587			
Qy	901	TAGCCTGGAGTCCCTTCCCTTAATGAGCAGTGGGTGCTGGAGGACAGTGGCTTCTCC	960			
Db	1588	TAGCCTGGAGTCCCTTCCCTTAATGAGCAGTGGGTGCTGGAGGACAGTGGCTTCTCC	1647			
Qy	961	ACCTTCCACCGGCTCTGCGGGGCTTGTGCTGTGATGCTCTCCGTAGTGTGGTGGG	1020			
Db	1648	ACCTTCCACCGGCTCTGCGGGGCTTGTGCTGTGATGCTCTCCGTAGTGTGGTGGG	1707			
Qy	1021	TGAGCCCAACGAGGCCAGGGTGGTTCCGGGGCCGGGGCATCTGCTGGACCTCGCCATCT	1080			

Db	1708	TGAGCCCAACGAGGCCAGGGTGGTTCCGGGCCGGGGCATCTGCTGGACCTCGGCATCCT	1767			
Qy	1081	GGATAGTGCCTTCTGCTGTCCAGGTGGCCCATCCCTCTTTATGGGCTCCATTGTCCA	1140			
Db	1768	GGATAGTGCCTTCTGCTGTCCAGGTGGCCCATCCCTCTTTATGGGCTCCATTGTCCA	1827			
Qy	1141	GCTCAGCAGCTGTCTCACTGCCTATATGTTGTCTGCCGACAGGCTTGGGTCTGGTCTGC	1200			
Db	1828	GCTCAGCAGCTGTCTCACTGCCTATATGTTGTCTGCCGACAGGCTTGGGTCTGGTCTGC	1887			
Qy	1201	TTACTTTGCTACAGGCTAGTATTTTGACAAGAGC	1234			
Db	1888	TTACTTTGCTACAGGCTAGTATTTTGACAAGAGC	1921			
RESULT 15						
US-09-895-793-110						
; Sequence 110, Application US/09895793						
; Publication No. US20020192763A1						
; GENERAL INFORMATION:						
; APPLICANT: Xu, Jiangchun						
; APPLICANT: Dillon, Davin C.						
; APPLICANT: Mitcham, Jennifer L.						
; APPLICANT: Harlocker, Susan L.						
; APPLICANT: Jiang, Yuqiu						
; APPLICANT: Kalos, Michael D.						
; APPLICANT: Retter, Marc W.						
; APPLICANT: Stolk, John A.						
; APPLICANT: Day, Craig H.						
; APPLICANT: Vedvick, Thomas S.						
; APPLICANT: Carter, Darrick						
; APPLICANT: Li, Samuel X.						
; APPLICANT: Wang, Aijun						
; APPLICANT: Skeiky, Yasir A.W.						
; APPLICANT: Hepler, William T.						
; APPLICANT: Henderson, Robert A.						
; APPLICANT: Hural, John						
; APPLICANT: McNeill, Patricia D.						
; APPLICANT: Houghton, Raymond L.						
; APPLICANT: Vinals de Bassols, Carlota						
; APPLICANT: Foy, Teresa						
; APPLICANT: Fanger, Gary R.						
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND						
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER						
; FILE REFERENCE: 210121.534C2						
; CURRENT APPLICATION NUMBER: US/09/895,793						
; NUMBER OF SEQ ID NOS: 982						
; SOFTWARE: Fast-Seq for Windows Version 3.0						
; SEQ ID NO 110						
; LENGTH: 3410						
; TYPE: DNA						
; ORGANISM: Homo sapien						
US-09-895-793-110						
Query Match						
Best Local Similarity						
Matches 1234;						
Conservative						
0; Mismatches						
0; Indels						
0; Gaps						
Qy	1	TGGCAGGTTGCTTCACTCCACTGGAGGCCCTCTCTCTGACCTCTTCCGGGACCCGGA	60			
Db	688	TGGCAGGTTGCTTCACTCCACTGGAGGCCCTCTCTCTGACCTCTTCCGGGACCCGGA	747			
Qy	61	CCACTGTGCGCAGGCTTACTCTGTCTATGCTTATGATAGTCTTGGGGGCTCCCTGGG	120			
Db	748	CCACTGTGCGCAGGCTTACTCTGTCTATGCTTATGATAGTCTTGGGGGCTCCCTGGG	807			
Qy	121	CTACTCTGCTGCCATTGACTGGGACACAGTGCCTTGGCCCCCTTACCTGGGACCCCA	180			
Db	808	CTACTCTGCTGCCATTGACTGGGACACAGTGCCTTGGCCCCCTTACCTGGGACCCCA	867			
Qy	181	GGAGGAGTGCTTTTGGCCTGCTCACCTCATCTTCTCACTGCTAGGACCACT	240			

Job time : 896.816 secs

```
Db      ||||| 868 GGAGGAGTGCCTCTTTGGCCTGCTCACCTCATCTTCTCTCACTGCTAGCAGCCACACT 927
Qy      ||||| 241 GCTGCTGCTGAGGAGGAGCGCTGGGCCCCCACCGAGCCAGCAGAGGGCTGTGGGCCCC 300
Db      ||||| 928 GCTGCTGCTGAGGAGGAGCGCTGGGCCCCCACCGAGCCAGCAGAGGGCTGTGGGCCCC 987
Qy      ||||| 301 CTCCTTGTGGCCCCACTGCTGTCCATGCGGGGCCCGCTTGGCTTTCGGAAACCTGGGGCC 360
Db      ||||| 988 CTCCTTGTGGCCCCACTGCTGTCCATGCGGGGCCCGCTTGGCTTTCGGAAACCTGGGGCC 1047
Qy      ||||| 361 CTTGCTTCCCCTGGCTGACCGAGCTGTGCTGCGCATGCCCCGCGACCCCTGCGCCGGCTCTT 420
Db      ||||| 1048 CTTGCTTCCCCTGGCTGACCGAGCTGTGCTGCGCATGCCCCGCGACCCCTGCGCCGGCTCTT 1107
Qy      ||||| 421 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTTCAGCTGTCTTACCGGATTT 480
Db      ||||| 1108 CGTGGCTGAGCTGTGAGCTGGATGGCACTCATGACCTTTCAGCTGTCTTACCGGATTT 1167
Qy      ||||| 481 CGTGGCGAGGGGCTGTACAGGGCGGTGCCAGAGCTGAGCGGGCACCGAGGGCCCCGGAG 540
Db      ||||| 1168 CGTGGCGAGGGGCTGTACAGGGCGGTGCCAGAGCTGAGCGGGCACCGAGGGCCCCGGAG 1227
Qy      ||||| 541 ACACATATGATGAAGCGTTGCGATGGGAGCGCTGGGGCTGTTCCTGCAAGTGGCCATCTC 600
Db      ||||| 1228 ACACATATGATGAAGCGTTGCGATGGGAGCGCTGGGGCTGTTCCTGCAAGTGGCCATCTC 1287
Qy      ||||| 601 CTTGCTTCTCTCTGCTCATGGACCGGCTGGTGAGCGATTCGGCACTCGAGCAGTCTA 660
Db      ||||| 1288 CTTGCTTCTCTCTGCTCATGGACCGGCTGGTGAGCGATTCGGCACTCGAGCAGTCTA 1347
Qy      ||||| 661 TTTGGCCAGTGTGGCAGCTTTCCTCTGTGGCTGCCGCTGCCACATGCCCTGTCCACAGTGT 720
Db      ||||| 1348 TTTGGCCAGTGTGGCAGCTTTCCTCTGTGGCTGCCGCTGCCACATGCCCTGTCCACAGTGT 1407
Qy      ||||| 721 GGCCTGTGTGACAGCTTCAGCGGCCCTCAACGGGGTTCACTTCTCAGCCCTGCGAGATCCT 780
Db      ||||| 1408 GGCCTGTGTGACAGCTTCAGCGGCCCTCAACGGGGTTCACTTCTCAGCCCTGCGAGATCCT 1467
Qy      ||||| 781 GCCCTACACACTGGGCTCCCTCTACACCGGGAGAGCAGGTGTTCTGCCCAATACCG 840
Db      ||||| 1468 GCCCTACACACTGGGCTCCCTCTACACCGGGAGAGCAGGTGTTCTGCCCAATACCG 1527
Qy      ||||| 841 AGGGACACTGGAGTGTCTAGCAGTGAGGACAGCCCTGATGACCACTTCTGCCAGGCC 900
Db      ||||| 1528 AGGGACACTGGAGTGTCTAGCAGTGAGGACAGCCCTGATGACCACTTCTGCCAGGCC 1587
Qy      ||||| 901 TAAGCTGGAGTCCCTTCCCTTAATGGACAAGTGGGTGCTGGAGGAGTGGCTGCTCCC 960
Db      ||||| 1588 TAAGCTGGAGTCCCTTCCCTTAATGGACAAGTGGGTGCTGGAGGAGTGGCTGCTCCC 1647
Qy      ||||| 961 ACCTCCACCGGCTCTCGGGGCTCTGCCCTGATGCTCCGTAAGTGTGGTGGTGG 1020
Db      ||||| 1648 ACCTCCACCGGCTCTCGGGGCTCTGCCCTGATGCTCCGTAAGTGTGGTGGTGG 1707
Qy      ||||| 1021 TGAGCCACCGAGGCGAGGGTGGTTCCGGGCGGGGCACTGCTCTGGACCTCGCCATCCT 1080
Db      ||||| 1708 TGAGCCACCGAGGCGAGGGTGGTTCCGGGCGGGGCACTGCTCTGGACCTCGCCATCCT 1767
Qy      ||||| 1081 GGATAGTGGCTTCTGCTGTCCAGGTGGCCCCCATCCCTGTTTATGGGCTCATTTGTCCA 1140
Db      ||||| 1768 GGATAGTGGCTTCTGCTGTCCAGGTGGCCCCCATCCCTGTTTATGGGCTCATTTGTCCA 1827
Qy      ||||| 1141 GCTCAGCCAGTGTCTGCTGCTATATGCTGTCTCCGCGAGCCCTGGGCTCTGGTGGCCAT 1200
Db      ||||| 1828 GCTCAGCCAGTGTCTGCTGCTATATGCTGTCTCCGCGAGCCCTGGGCTCTGGTGGCCAT 1887
Qy      ||||| 1201 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1234
Db      ||||| 1888 TTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1921
```



```
;
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-071-710-15

Query Match      100.0%; Score 589; DB 3; Length 2143;
Best Local Similarity 100.0%; Pred. No. 9.8e-146;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGACAGCTATTGGCCAGGTGGCAGCTTCCCTGTGGCTGCGGTGCCACATG 60
DB 149 CACTCGACAGCTATTGGCCAGGTGGCAGCTTCCCTGTGGCTGCGGTGCCACATG 208

QY 61 CTTGCTCCCAAGTGGCCGCTGACAGCTTACAGCCGCTTACCGGGTTCACCTTCTC 120
DB 209 CTTGCTCCCAAGTGGCCGCTGACAGCTTACAGCCGCTTACCGGGTTCACCTTCTC 268

QY 121 AGCCTCGAGATCTCTGCTCCACCTCCACCTGGAGTGTCTAGCAGTGGAGACAGCTGT 180
DB 269 AGCCTCGAGATCTCTGCTCCACCTCCACCTGGAGTGTCTAGCAGTGGAGACAGCTGT 328

QY 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGACAGCTGTATGAC 240
DB 329 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGACAGCTGTATGAC 388

QY 241 CTTCTGCCAGCCCTTAAGCTTGGAGCTTCCCTTCCCTAATGGACACGCTGGGTGGAGG 300
DB 389 CTTCTGCCAGCCCTTAAGCTTGGAGCTTCCCTTCCCTAATGGAGACGCTGGGTGGAGG 448

QY 301 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCGCTGTGATGCTCCGT 360
DB 449 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCGCTGTGATGCTCCGT 508

QY 361 ACGTGTGGTGGGTGAGCCCAACCGAGGGCAGGGTGGTTCGGGCGGGGCATCTGCCT 420
DB 509 ACGTGTGGTGGGTGAGCCCAACCGAGGGCAGGGTGGTTCGGGCGGGGCATCTGCCT 568

QY 421 GGACCTCGCCATCTCTGGATAGTGTCTTCCCTGCTGCTCCAGTGGCCCATCCCTGTTTAT 480
DB 569 GGACCTCGCCATCTCTGGATAGTGTCTTCCCTGCTGCTCCAGTGGCCCATCCCTGTTTAT 628

QY 481 GGGCTCCATTTGCCAGCTCAGCCAGTGTCTGCTCCCTATATGTTGTCTGCCGAGGCT 540
DB 629 GGGCTCCATTTGCCAGCTCAGCCAGTGTCTGCTCCCTATATGTTGTCTGCCGAGGCT 688

QY 541 GGGTCTGGTGGCCATTTACTTTTGTACACAGTGTATTTGACAGAGC 589
DB 689 GGGTCTGGTGGCCATTTACTTTTGTACACAGTGTATTTGACAGAGC 737

RESULT 2
US-09-525-397-15
; Sequence 15, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
```

```
;
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA: US/09/525,397
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-525-397-15

Query Match      100.0%; Score 589; DB 3; Length 2143;
Best Local Similarity 100.0%; Pred. No. 9.8e-146;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGACAGCTATTGGCCAGGTGGCAGCTTCCCTGTGGCTGCGGTGCCACATG 60
DB 149 CACTCGACAGCTATTGGCCAGGTGGCAGCTTCCCTGTGGCTGCGGTGCCACATG 208

QY 61 CTTGCTCCCAAGTGGCCGCTGACAGCTTACAGCCGCTTACCGGGTTCACCTTCTC 120
DB 209 CTTGCTCCCAAGTGGCCGCTGACAGCTTACAGCCGCTTACCGGGTTCACCTTCTC 268

QY 121 AGCCTCGAGATCTCTGCTCCACCTCCACCTGGAGTGTCTAGCAGTGGAGACAGCTGT 180
DB 269 AGCCTCGAGATCTCTGCTCCACCTCCACCTGGAGTGTCTAGCAGTGGAGACAGCTGT 328

QY 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGACAGCTGTATGAC 240
DB 329 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGACAGCTGTATGAC 388

QY 241 CTTCTGCCAGCCCTTAAGCTTGGAGCTTCCCTTCCCTAATGGACACGCTGGGTGGAGG 300
DB 389 CTTCTGCCAGCCCTTAAGCTTGGAGCTTCCCTTCCCTAATGGAGACGCTGGGTGGAGG 448

QY 301 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCGCTGTGATGCTCCGT 360
DB 449 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCGCTGTGATGCTCCGT 508

QY 361 ACGTGTGGTGGGTGAGCCCAACCGAGGGCAGGGTGGTTCGGGCGGGGCATCTGCCT 420
DB 509 ACGTGTGGTGGGTGAGCCCAACCGAGGGCAGGGTGGTTCGGGCGGGGCATCTGCCT 568

QY 421 GGACCTCGCCATCTCTGGATAGTGTCTTCCCTGCTGCTCCAGTGGCCCATCCCTGTTTAT 480
DB 569 GGACCTCGCCATCTCTGGATAGTGTCTTCCCTGCTGCTCCAGTGGCCCATCCCTGTTTAT 628

QY 481 GGGCTCCATTTGCCAGCTCAGCCAGTGTCTGCTCCCTATATGTTGTCTGCCGAGGCT 540
DB 629 GGGCTCCATTTGCCAGCTCAGCCAGTGTCTGCTCCCTATATGTTGTCTGCCGAGGCT 688

QY 541 GGGTCTGGTGGCCATTTACTTTTGTACACAGTGTATTTGACAGAGC 589
```

```
Db 689 GGGTCTGTCGCCATTACTTTGCTACACAGGTAGTATTTGACAAGAGC 737
|||||
RESULT 3
US-09-071-710-16
; Sequence 16, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLAS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-071-710-16
Query Match 100.0%; Score 589; DB 3; Length 2152;
Best Local Similarity 100.0%; Pred. No. 9.8e-146;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CACTCGACGAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db 157 CACTCGACGAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 216
Qy 61 CCTGTCCACAGTGTGGCCGTTGACAGCTTTCAGCCGCTTCCAGCTTTCACCTTCTC 120
Db 217 CCTGTCCACAGTGTGGCCGTTGACAGCTTTCAGCCGCTTTCACCTTCTC 276
Qy 121 AGCCCTGCAGATCTCGCCCTACACACTGGCTTCCCTCTTACCACCGGGAGAGCAGGTGTT 180
|||||
```


APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqi
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.427C21
CURRENT APPLICATION NUMBER: US/09/685.166A
CURRENT FILING DATE: 2000-10-10
NUMBER OF SEQ ID NOS: 898
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 703
LENGTH: 2904
TYPE: DNA
ORGANISM: Homo sapiens
US-09-685-166A-703

Query Match 100.0%; Score 589; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 60
Db 905 CACTCGAGCAGCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 964

Qy 61 CTTGTCCACAGTGTGGCGTGGTGACAGCTTACGCCGCTTCCACCGGGTTTCACTTCTC 120
Db 965 CTTGTCCACAGTGTGGCGTGGTGACAGCTTACGCCGCTTCCACCGGGTTTCACTTCTC 1024

Qy 121 AGCCTGCAGATCTGCGCTTACACACTGGGCTTCCCTTACACCGGGAGAGCAGGTGT 180
Db 1025 AGCCTGCAGATCTGCGCTTACACACTGGGCTTCCCTTACACCGGGAGAGCAGGTGT 1084

Qy 181 CTTCCCAATACCGAGGGACACTGGAGGTGTAGCAGTGCAGGACAGCCTGATGACCA 240
Db 1085 CTTCCCAATACCGAGGGACACTGGAGGTGTAGCAGTGCAGGACAGCCTGATGACCA 1144

Qy 241 CTTCTGCCAGGCCCTAAGCCTGGAGCTTCCCTTCCCTAATGGACACGTTGGGTGCTGGAG 300
Db 1145 CTTCTGCCAGGCCCTAAGCCTGGAGCTTCCCTTCCCTAATGGACACGTTGGGTGCTGGAG 1204

Qy 301 CAGTGGCTGTCCACCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 360
Db 1205 CAGTGGCTGTCCACCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 1264

Qy 361 ACGTGTGGTGTGGTGTAGCCACCGAGGCGAGGTGTTCGGGCGGGGCGGCGATCTGCCT 420
Db 1265 ACGTGTGGTGTGGTGTAGCCACCGAGGCGAGGTGTTCGGGCGGGGCGGCGATCTGCCT 1324

Qy 421 GGACCTCGCCATCTGGATAGTGCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 480
Db 1325 GGACCTCGCCATCTGGATAGTGCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 1384

Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 540
Db 1385 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 1444

Qy 541 GGGTCTGGTCCCAATTACTTTTGTACACAGGTAGTATTTCACAGAGC 589
Db 1445 GGGTCTGGTCCCAATTACTTTTGTACACAGGTAGTATTTCACAGAGC 1493

RESULT 7

US-09-679-426-703
Sequence 703, Application US/09679426
Patent No. 6759515
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqi
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
FILE REFERENCE: 210121.427C20
CURRENT APPLICATION NUMBER: US/09/679.426
CURRENT FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 895
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 703
LENGTH: 2904
TYPE: DNA
ORGANISM: Homo sapiens
US-09-679-426-703

Query Match 100.0%; Score 589; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 60
Db 905 CACTCGAGCAGCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 964

Qy 61 CTTGTCCACAGTGTGGCGTGGTGACAGCTTACGCCGCTTCCACCGGGTTTCACTTCTC 120
Db 965 CTTGTCCACAGTGTGGCGTGGTGACAGCTTACGCCGCTTCCACCGGGTTTCACTTCTC 1024

Qy 121 AGCCTGCAGATCTGCGCTTACACACTGGGCTTCCCTTACACCGGGAGAGCAGGTGT 180
Db 1025 AGCCTGCAGATCTGCGCTTACACACTGGGCTTCCCTTACACCGGGAGAGCAGGTGT 1084

Qy 181 CTTCCCAATACCGAGGGACACTGGAGGTGTAGCAGTGCAGGACAGCCTGATGACCA 240
Db 1085 CTTCCCAATACCGAGGGACACTGGAGGTGTAGCAGTGCAGGACAGCCTGATGACCA 1144

Qy 241 CTTCTGCCAGGCCCTAAGCCTGGAGCTTCCCTTCCCTAATGGACACGTTGGGTGCTGGAG 300
Db 1145 CTTCTGCCAGGCCCTAAGCCTGGAGCTTCCCTTCCCTAATGGACACGTTGGGTGCTGGAG 1204

Qy 301 CAGTGGCTGTCCACCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 360
Db 1205 CAGTGGCTGTCCACCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 1264

Qy 361 ACGTGTGGTGTGGTGTAGCCACCGAGGCGAGGTGTTCGGGCGGGGCGGCGATCTGCCT 420
Db 1265 ACGTGTGGTGTGGTGTAGCCACCGAGGCGAGGTGTTCGGGCGGGGCGGCGATCTGCCT 1324

Qy 421 GGACCTCGCCATCTGGATAGTGCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 480
Db 1325 GGACCTCGCCATCTGGATAGTGCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT 1384

Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 540
Db 1385 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 1444

QY 541 GGGTCTGGTCGCCATTTACTTTGCTACACAGGTAGTATTTGACAAGAGC 589
 DB 1445 GGGTCTGGTCGCCATTTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1493

RESULT 8
 US-09-759-143-703
 ; Sequence 703, Application US/09759143
 ; Patent No. 6800746
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yuqui
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Li, Samuel
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Hepler, William
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; FILE REFERENCE: 210121.427C23
 ; CURRENT APPLICATION NUMBER: US/09/759,143
 ; CURRENT FILING DATE: 2001-01-12
 ; NUMBER OF SEQ ID NOS: 934
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 703
 ; LENGTH: 2904
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-759-143-703

Query Match 100.0%; Score 589; DB 4; Length 2904;
 Best Local Similarity 100.0%; Pred. No. 1.1e-145;
 Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGACAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 60
 DB 905 CACTCGACAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 964

QY 61 CCTGTCCACAGTGTGGCCGTGGTGACAGCTTCCCTGTGGCTGCCGTGCCACATG 120
 DB 965 CCTGTCCACAGTGTGGCCGTGGTGACAGCTTCCCTGTGGCTGCCGTGCCACATG 1024

QY 121 AGCCCTGAGATCTGCTCCCTACACACTGGCTTCCCTGTGGCTGCCGTGCCACATG 180
 DB 1025 AGCCCTGAGATCTGCTCCCTACACACTGGCTTCCCTGTGGCTGCCGTGCCACATG 1084

QY 181 CCTGTCCCAATACCGAGGGGACACTGGAGTGTGGCTGCCGTGCCACATG 240
 DB 1085 CCTGTCCCAATACCGAGGGGACACTGGAGTGTGGCTGCCGTGCCACATG 1144

QY 241 CTTCCTGCGAGCCCTTAAGCCCTGAGCTTCCCTGTGGCTGCCGTGCCACATG 300
 DB 1145 CTTCCTGCGAGCCCTTAAGCCCTGAGCTTCCCTGTGGCTGCCGTGCCACATG 1204

QY 301 CAGTGGCTGTCTCCACCTCCACCTGCTGCGGGGCTCTGCTGTGATGCTCGGT 360
 DB 1205 CAGTGGCTGTCTCCACCTCCACCTGCTGCGGGGCTCTGCTGTGATGCTCGGT 1264

QY 361 ACCTGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 420
 DB 1265 ACCTGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 1324

QY 421 GGACCTCGCCATCTCGATAGTGCCTTCTCTGCTGCCAGGTGCCCATCCCTGTTTAT 480
 DB 1325 GGACCTCGCCATCTCGATAGTGCCTTCTCTGCTGCCAGGTGCCCATCCCTGTTTAT 1384

QY 481 GGGTCTCCATTGTCAGCTCAGCCAGTGTGTGCTATATGCTGCTGCCAGGCT 540
 DB 1385 GGGTCTCCATTGTCAGCTCAGCCAGTGTGTGCTATATGCTGCTGCCAGGCT 1444

QY 541 GGGTCTGCTGCCATTTACTTTGCTACACAGGTAGTATTTGACAAGAGC 589
 DB 1445 GGGTCTGCTGCCATTTACTTTGCTACACAGGTAGTATTTGACAAGAGC 1493

RESULT 9
 US-09-651-236-703
 ; Sequence 703, Application US/09651236
 ; Patent No. 6818751
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yuqui
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Li, Samuel
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Hepler, William
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; FILE REFERENCE: 210121.42718C18
 ; CURRENT APPLICATION NUMBER: US/09/651,236
 ; CURRENT FILING DATE: 2000-08-29
 ; NUMBER OF SEQ ID NOS: 865
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 703
 ; LENGTH: 2904
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-651-236-703

Query Match 100.0%; Score 589; DB 4; Length 2904;
 Best Local Similarity 100.0%; Pred. No. 1.1e-145;
 Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGACAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 60
 DB 905 CACTCGACAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCACATG 964

QY 61 CCTGTCCACAGTGTGGCCGTGGTGACAGCTTCCCTGTGGCTGCCGTGCCACATG 120
 DB 965 CCTGTCCACAGTGTGGCCGTGGTGACAGCTTCCCTGTGGCTGCCGTGCCACATG 1024

QY 121 AGCCCTGAGATCTGCTCCCTACACACTGGCTTCCCTGTGGCTGCCGTGCCACATG 180
 DB 1025 AGCCCTGAGATCTGCTCCCTACACACTGGCTTCCCTGTGGCTGCCGTGCCACATG 1084

QY 181 CCTGTCCCAATACCGAGGGGACACTGGAGTGTGGCTGCCGTGCCACATG 240
 DB 1085 CCTGTCCCAATACCGAGGGGACACTGGAGTGTGGCTGCCGTGCCACATG 1144

QY 241 CTTCCTGCGAGCCCTTAAGCCCTGAGCTTCCCTGTGGCTGCCGTGCCACATG 300
 DB 1145 CTTCCTGCGAGCCCTTAAGCCCTGAGCTTCCCTGTGGCTGCCGTGCCACATG 1204

QY 301 CAGTGGCTGTCTCCACCTCCACCTGCTGCGGGGCTCTGCTGTGATGCTCGGT 360
 DB 1205 CAGTGGCTGTCTCCACCTCCACCTGCTGCGGGGCTCTGCTGTGATGCTCGGT 1264

QY 361 ACCTGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 420
 DB 1265 ACCTGTGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGT 1324

Db 1205 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGCCCTCTGCTGTGATGTCCTCGT 1264
Qy 361 ACCTGTGTGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGGCCGGGCGCATCTGCCT 420
Db 1265 ACCTGTGTGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGGCCGGGCGCATCTGCCT 1324
Qy 421 GGACTCGCCATCTCGGATAGTGCCTCTCTGCTGTCCAGGTGGCCGCCCATCTCTGTTAT 480
Db 1325 GGACTCGCCATCTCGGATAGTGCCTCTCTGCTGTCCAGGTGGCCGCCCATCTCTGTTAT 1384
Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCACTGCCCTATATGTTGTCTGCCAGGCT 540
Db 1385 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCACTGCCCTATATGTTGTCTGCCAGGCT 1444
Qy 541 GGGCTGTGTGCCCATTTACTTTGTCTACACAGGTAGTATTTGACAAGGC 589
Db 1445 GGGCTGTGTGCCCATTTACTTTGTCTACACAGGTAGTATTTGACAAGGC 1493

RESULT 10
US-09-020-956-110
; Sequence 110, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-110

Query Match 100.0%; Score 589; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCACTATTGGCCAGTGGCAGCTTTCCTGTGGCTGCCGGTGCACATG 60
Db 1333 CACTCGAGCACTATTGGCCAGTGGCAGCTTTCCTGTGGCTGCCGGTGCACATG 1392
Qy 61 CCTGTCCACAGTGTGGCCGTGTGACAGCTTTCAGCGCCCTCACCAGGTTTCACTTCTC 120

Db 1393 CCTGTCCACAGTGTGGCCGTGTGACAGCTTTCAGCGCCCTCACCAGGTTTCACTTCTC 1452
Qy 121 AGCCCTCAGATCTGCGCTTACACACTGGCTCCCTTACACCGGGAGAGCAGGTGTT 180
Db 1453 AGCCCTCAGATCTGCGCTTACACACTGGCTCCCTTACACCGGGAGAGCAGGTGTT 1512
Qy 181 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACAGCCTGATGACCA 240
Db 1513 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACAGCCTGATGACCA 1572
Qy 241 CTTCTCCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGTCGAGG 300
Db 1573 CTTCTCCAGGCGCTTAAGCTTGGAGCTCCCTTCCCTTAATGGAACAGTGGGTGTCGAGG 1632
Qy 301 CAGTGGCTCTGCCACCTCCACCGCGCTCTCGGGGGCCCTCTGCTGTGATGTCCTCGT 360
Db 1633 CAGTGGCTCTGCCACCTCCACCGCGCTCTCGGGGGCCCTCTGCTGTGATGTCCTCGT 1692
Qy 361 ACCTGTGTGTGGGTGAGCCACCGAGGGCGAGGTGTTCCGGGGCCGGGCGCATCTGCCT 420
Db 1693 ACCTGTGTGTGGGTGAGCCACCGAGGGCGAGGTGTTCCGGGGCCGGGCGCATCTGCCT 1752
Qy 421 GGAACCTCGCATCTGGATAGTGCCTTCTGCTGTCCAGGTGGCCGCCCATCTCTGTTAT 480
Db 1753 GGAACCTCGCATCTGGATAGTGCCTTCTGCTGTCCAGGTGGCCGCCCATCTCTGTTAT 1812
Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCACTGCCCTATATGTTGTGTCGCCAGGCT 540
Db 1813 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCTCACTGCCCTATATGTTGTGTCGCCAGGCT 1872
Qy 541 GGGCTGTGTGCCCATTTACTTTGTCTACACAGGTAGTATTTGACAAGGC 589
Db 1873 GGGCTGTGTGCCCATTTACTTTGTCTACACAGGTAGTATTTGACAAGGC 1921

RESULT 11
US-09-030-607-110
; Sequence 110, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

```

; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-110

Query Match      100.0%; Score 589; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1392
Qy 61 CCGTGTCCACAGTGTGGCCGCTGTGACAGCTTTACAGCGCCCTTACCGGGTTCACCTTCTC 120
Db 1393 CCGTGTCCACAGTGTGGCCGCTGTGACAGCTTTACAGCGCCCTTACCGGGTTCACCTTCTC 1452
Qy 121 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACACCGGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACACCGGGAGAGCAGGTGTT 1512
Qy 181 CCGTGTCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACACCTGATGACCAG 240
Db 1513 CCGTGTCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACACCTGATGACCAG 1572
Qy 241 CTTCTGTCCAGGCTTAAGCCTTGAAGCTTCCCTTAAATGGACACGCTGGGTGCTGGAGG 300
Db 1573 CTTCTGTCCAGGCTTAAGCCTTGAAGCTTCCCTTAAATGGACACGCTGGGTGCTGGAGG 1632
Qy 301 CAGTGGCTGTCCACCTTCAACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCGT 360
Db 1633 CAGTGGCTGTCCACCTTCAACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCGT 1692
Qy 361 ACGTGTGTGTGGGTGAGCCACCGAGGAGGCTTCCCGGCGCGGCGCATCTGCCT 420
Db 1693 ACGTGTGTGTGGGTGAGCCACCGAGGAGGCTTCCCGGCGCGGCGCATCTGCCT 1752
Qy 421 GGACCTCGCCATCTCGATAGTGTCTTCTGCTGCCAGGTGGCCCCCATCCCTGTTTAT 480
Db 1753 GGACCTCGCCATCTCGATAGTGTCTTCTGCTGCCAGGTGGCCCCCATCCCTGTTTAT 1812
Qy 481 GGGTCCATTGTCCAGCTCAGCCAGTGTGTCACTGCTTATATGTGTCTGCCGAGGCT 540
Db 1813 GGGTCCATTGTCCAGCTCAGCCAGTGTGTCACTGCTTATATGTGTCTGCCGAGGCT 1872
Qy 541 GGGTCTGGTGGCCATTACTTTGCTACACAGTGTATTTTGACAAGAGC 589
Db 1873 GGGTCTGGTGGCCATTACTTTGCTACACAGTGTATTTTGACAAGAGC 1921

```

```

RESULT 12
US-09-439-313-110
; Sequence 110, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0

```

```

; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-439-313-110

Query Match      100.0%; Score 589; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1392
Qy 61 CCGTGTCCACAGTGTGGCCGCTGTGACAGCTTTACAGCGCCCTTACCGGGTTCACCTTCTC 120
Db 1393 CCGTGTCCACAGTGTGGCCGCTGTGACAGCTTTACAGCGCCCTTACCGGGTTCACCTTCTC 1452
Qy 121 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACACCGGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACACCGGGAGAGCAGGTGTT 1512
Qy 181 CCGTGTCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACACCTGATGACCAG 240
Db 1513 CCGTGTCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAAGGACACCTGATGACCAG 1572
Qy 241 CTTCTGTCCAGGCTTAAGCCTTGAAGCTTCCCTTAAATGGACACGCTGGGTGCTGGAGG 300
Db 1573 CTTCTGTCCAGGCTTAAGCCTTGAAGCTTCCCTTAAATGGACACGCTGGGTGCTGGAGG 1632
Qy 301 CAGTGGCTGTCCACCTTCAACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCGT 360
Db 1633 CAGTGGCTGTCCACCTTCAACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCGT 1692
Qy 361 ACGTGTGTGTGGGTGAGCCACCGAGGAGGCTTCCCGGCGCGGCGCATCTGCCT 420
Db 1693 ACGTGTGTGTGGGTGAGCCACCGAGGAGGCTTCCCGGCGCGGCGCATCTGCCT 1752
Qy 421 GGACCTCGCCATCTCGATAGTGTCTTCTGCTGCCAGGTGGCCCCCATCCCTGTTTAT 480
Db 1753 GGACCTCGCCATCTCGATAGTGTCTTCTGCTGCCAGGTGGCCCCCATCCCTGTTTAT 1812
Qy 481 GGGTCCATTGTCCAGCTCAGCCAGTGTGTCACTGCTTATATGTGTCTGCCGAGGCT 540
Db 1813 GGGTCCATTGTCCAGCTCAGCCAGTGTGTCACTGCTTATATGTGTCTGCCGAGGCT 1872
Qy 541 GGGTCTGGTGGCCATTACTTTGCTACACAGTGTATTTTGACAAGAGC 589
Db 1873 GGGTCTGGTGGCCATTACTTTGCTACACAGTGTATTTTGACAAGAGC 1921

```

RESULT 13

```

US-09-352-616A-110
; Sequence 110, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqi
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110

```


Query Match 100.0%; Score 589; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGTCCGGTGCCACATG 60
Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGTCCGGTGCCACATG 1392

Qy 61 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 120
Db 1393 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 1452

Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 1512

Qy 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 240
Db 1513 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 1572

Qy 241 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 300
Db 1573 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 1632

Qy 301 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 360
Db 1633 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 1692

Qy 361 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 420
Db 1693 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1752

Qy 421 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGTGGT 480
Db 1753 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGT 1812

Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 540
Db 1813 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 1872

Qy 541 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 589
Db 1873 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 1921

RESULT 14
US-09-602-877A-100
; Sequence 100, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602.877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-602-877A-100

Query Match 100.0%; Score 589; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGTCCGGTGCCACATG 60
Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGTCCGGTGCCACATG 1392

Qy 61 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 120
Db 1393 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 1452

Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 1512

Qy 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 240
Db 1513 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 1572

Qy 241 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 300
Db 1573 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 1632

Qy 301 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 360
Db 1633 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 1692

Qy 361 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 420
Db 1693 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1752

Qy 421 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGTGGT 480
Db 1753 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGT 1812

Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 540
Db 1813 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 1872

Qy 541 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 589
Db 1873 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 1921

Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGTCCGGTGCCACATG 1392

Qy 61 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 120
Db 1393 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 1452

Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 1512

Qy 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 240
Db 1513 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 1572

Qy 241 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 300
Db 1573 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 1632

Qy 301 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 360
Db 1633 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 1692

Qy 361 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 420
Db 1693 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1752

Qy 421 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGTGGT 480
Db 1753 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGT 1812

Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 540
Db 1813 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 1872

Qy 541 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 589
Db 1873 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 1921

RESULT 15
US-09-232-149A-110
; Sequence 110, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232.149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110

Query Match 100.0%; Score 589; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 1.1e-145;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGTCCGGTGCCACATG 60
Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGTCCGGTGCCACATG 1392

Qy 61 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 120
Db 1393 CTTGTCACACAGTGTGGCCGTGTGACAGCTTACAGCCGCTCACCGGGTTTCACCTTCTC 1452

Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACACCGGGAGAGCAGGTGTT 1512

Qy 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 240
Db 1513 CTTGCCCAATACCGAGGGGACACTGGAGTGTAGCAGTGTAGGACAGCCTGTATGACAG 1572

Qy 241 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 300
Db 1573 CTTCTGCCAGGCTTAAAGCTTGGAGCTCCCTTCCCTTAAATGGACACGTGGTGTGAGG 1632

Qy 301 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 360
Db 1633 CAGTGGCTCTGCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGTATGTCTCGT 1692

Qy 361 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 420
Db 1693 ACGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1752

Qy 421 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGTGGT 480
Db 1753 GGACCTCGCCATCTGGATAGTCTTCCCTGCTGCCAGTGTGGTGGTGGTGGTGGT 1812

Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 540
Db 1813 GGGCTCCATTGTCCAGCTCAGCCAGTCTGTCACTGCCCTATATGTGTGTGTCGCCGAGGCT 1872

Qy 541 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 589
Db 1873 GGGTCTGGTCCCATTTACTTTGTCTACACAGTGTATTTGACAAAGC 1921

1453	Db		AGCCTCGAGATCTGCGCTCACACATGGCGCTCCCTCTATCCACGGGAGAAGCAGGTGT	1512
181	Qy		CCTGCCAATAACGAGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCAG	240
1513	Db		CCTGCCAATAACGAGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCAG	1572
241	Qy		CTTCTGCGAGGCCCTAAGCGTGGAGCTCCCTTCCCTAAATGGACACAGTGGGTGCTGGAGG	300
1573	Db		CTTCTGCCAGGCCCTAAGCGTGGAGCTCCCTTCCCTAAATGGACACAGTGGGTGCTGGAGG	1632
301	Qy		CAGTGGGCTGCTCCCACTCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT	360
1633	Db		CAGTGGGCTGCTCCCACTCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT	1692
361	Qy		ACGTGTGGTGGGTGAGGCTGAGCCACGAGGCCAGGGTGGTTCGGGGCGGGGCATCTGCCT	420
1693	Db		ACGTGTGGTGGGTGAGCCACGAGGCCAGGGTGGTTCGGGGCGGGGCATCTGCCT	1752
421	Qy		GGACTCGCCATCTCGATAGTGCTTCTGCTGTCTCCAGGTGGCCCACTCCCTGTTTAT	480
1753	Db		GGACTCGCCATCTCGATAGTGCTTCTGCTGTCTCCAGGTGGCCCACTCCCTGTTTAT	1812
481	Qy		GGGCTCCATTGTCCAGCTTCAGCCAGTCTGTCACTGCCTATATGGTGTCTGCCCGCAGCCCT	540
1813	Db		GGGCTCCATTGTCCAGCTTCAGCCAGTCTGTCACTGCCTATATGGTGTCTGCCCGCAGCCCT	1872
541	Qy		GGGTCTGGTCGCCATTTACTTTTGCTACACAGGTAGTATTTGCACAGAGC	589
1873	Db		GGGTCTGGTCGCCATTTACTTTTGCTACACAGGTAGTATTTGCACAGAGC	1921

Search completed: June 16, 2005, 04:10:27
Job time : 114.828 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2005, 03:52:53 ; Search time 427.104 Seconds
(without alignments)
8560.543 Million cell updates/sec

Title: US-09-605-783A-110_COPY_1333_1921

Perfect score: 589

Sequence: 1 cactcgcagctctattgg.....aggtagtattgacaagacg 589

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 6054689 seqs, 3103772919 residues

Total number of hits satisfying chosen parameters: 12109378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	589	100.0	741	16	US-10-144-678A-1026
2	589	100.0	741	16	Sequence 1026, Ap
3	589	100.0	918	16	US-10-294-025-1026
4	589	100.0	918	16	Sequence 1027, Ap
5	589	100.0	1662	16	US-10-294-025-1027
6	589	100.0	1662	16	Sequence 1027, Ap
7	589	100.0	1662	17	US-10-005-907-12
					Sequence 12, Appl
					Sequence 547, App
					Sequence 1, Appli

8	589	100.0	2133	15	US-10-296-770-3	Sequence 3, Appli
9	589	100.0	2143	9	US-09-841-894-15	Sequence 15, Appl
10	589	100.0	2152	9	US-09-841-894-16	Sequence 16, Appl
11	589	100.0	2582	17	US-10-295-027-901	Sequence 901, App
12	589	100.0	2904	9	US-09-759-143-703	Sequence 703, App
13	589	100.0	2904	9	US-09-780-669-703	Sequence 703, App
14	589	100.0	2904	9	US-09-822-827-703	Sequence 703, App
15	589	100.0	2904	9	US-09-895-793-703	Sequence 703, App
16	589	100.0	2904	9	US-09-895-814-703	Sequence 703, App
17	589	100.0	2904	13	US-10-012-896-703	Sequence 703, App
18	589	100.0	2904	16	US-10-144-678A-703	Sequence 703, App
19	589	100.0	2904	16	US-10-294-025-703	Sequence 703, App
20	589	100.0	3320	9	US-09-838-785-1	Sequence 1, Appli
21	589	100.0	3332	21	US-10-936-626-21	Sequence 21, Appl
22	589	100.0	3332	21	US-10-938-061-21	Sequence 21, Appl
23	589	100.0	3410	9	US-09-745-288-100	Sequence 100, App
24	589	100.0	3410	9	US-09-759-143-110	Sequence 110, App
25	589	100.0	3410	9	US-09-780-669-110	Sequence 110, App
26	589	100.0	3410	9	US-09-030-606-110	Sequence 110, App
27	589	100.0	3410	9	US-09-822-827-110	Sequence 110, App
28	589	100.0	3410	9	US-09-115-453-110	Sequence 110, App
29	589	100.0	3410	9	US-09-232-880-110	Sequence 110, App
30	589	100.0	3410	9	US-09-895-793-110	Sequence 110, App
31	589	100.0	3410	9	US-09-895-814-110	Sequence 110, App
32	589	100.0	3410	13	US-10-012-896-110	Sequence 110, App
33	589	100.0	3410	14	US-10-010-940-110	Sequence 110, App
34	589	100.0	3410	16	US-10-144-678A-110	Sequence 110, App
35	589	100.0	3410	16	US-10-294-025-110	Sequence 110, App
36	589	100.0	3410	18	US-10-453-919-100	Sequence 100, App
37	589	100.0	3410	19	US-10-688-838-110	Sequence 110, App
38	589	100.0	4034	9	US-09-759-143-704	Sequence 704, App
39	589	100.0	4034	9	US-09-780-669-704	Sequence 704, App
40	589	100.0	4034	9	US-09-822-827-704	Sequence 704, App
41	589	100.0	4034	9	US-09-895-793-704	Sequence 704, App
42	589	100.0	4034	9	US-09-895-814-704	Sequence 704, App
43	589	100.0	4034	13	US-10-012-896-704	Sequence 704, App
44	589	100.0	4034	16	US-10-144-678A-704	Sequence 704, App
45	589	100.0	4034	16	US-10-294-025-704	Sequence 704, App

ALIGNMENTS

RESULT 1

US-10-144-678A-1026
; Sequence 1026, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

```

; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C28
; CURRENT APPLICATION NUMBER: US/10/144,678A
; CURRENT FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 1033
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1026
; LENGTH: 741
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-144-678A-1026

Query Match      100.0%; Score 589; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 4.4e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGGCGTGCCACATG 60
Db 129 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGGCGTGCCACATG 188
Qy 61 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 120
Db 189 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 248
Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACCAACCGGGAGAGCAGGTGT 180
Db 249 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACCAACCGGGAGAGCAGGTGT 308
Qy 181 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 240
Db 309 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 368
Qy 241 CTTCTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACACGCTGGGTGCTGGAGG 300
Db 369 CTTCTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACACGCTGGGTGCTGGAGG 428
Qy 301 CAGTGGCTGTCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 360
Db 429 CAGTGGCTGTCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 488
Qy 361 AGGTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 420
Db 489 AGGTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 548
Qy 421 GGACCTCGCCATCTCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 480
Db 549 GGACCTCGCCATCTCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 608
Qy 481 GGGCTCCATTTGCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 540
Db 609 GGGCTCCATTTGCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 668
Qy 541 GGGTCTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 589
Db 669 GGGTCTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 717

```

RESULT 2

```

US-10-294-025-1026
; Sequence 1026, Application US/10294025
; Publication No. US20030185830A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Kalos, Michael D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C29
; CURRENT APPLICATION NUMBER: US/10/294,025
; CURRENT FILING DATE: 2002-11-12
; NUMBER OF SEQ ID NOS: 1038
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1026

```

```

; LENGTH: 741
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-294-025-1026

Query Match      100.0%; Score 589; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 4.4e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGGCGTGCCACATG 60
Db 129 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGGCGTGCCACATG 188
Qy 61 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 120
Db 189 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 248
Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACCAACCGGGAGAGCAGGTGT 180
Db 249 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCTTACCAACCGGGAGAGCAGGTGT 308
Qy 181 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 240
Db 309 CCGTCCCAACAGTGTGGCGGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTCACCTTCTC 368
Qy 241 CTTCTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACACGCTGGGTGCTGGAGG 300
Db 369 CTTCTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACACGCTGGGTGCTGGAGG 428
Qy 301 CAGTGGCTGTCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 360
Db 429 CAGTGGCTGTCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 488
Qy 361 AGGTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 420
Db 489 AGGTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 548
Qy 421 GGACCTCGCCATCTCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 480
Db 549 GGACCTCGCCATCTCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 608
Qy 481 GGGCTCCATTTGCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 540
Db 609 GGGCTCCATTTGCCAGTGTAGTGTCTTCTGTCTCCAGGTGGGCCCATCCCTGTTTAT 668
Qy 541 GGGTCTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 589
Db 669 GGGTCTGTGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGTGGGT 717

```

RESULT 3

```

US-10-144-678A-1027
; Sequence 1027, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriek
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John

```



```
; SEQ ID NO 12
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1662)
; OTHER INFORMATION:
US-10-005-907-12

Query Match      100.0%; Score 589; DB 16; Length 1662;
Best Local Similarity 100.0%; Pred. No. 4.7e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGACGAGTCATATTTGGCCAGTGTCGACAGCTTTCCTGTGGCTGCGGTGCCACATG 60
Db 1050 CACTCGACGAGTCATATTTGGCCAGTGTCGACAGCTTTCCTGTGGCTGCGGTGCCACATG 1109

Qy 61 CTTCTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTTACCCGGGTTTCACTTCTC 120
Db 1110 CTTCTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTTACCCGGGTTTCACTTCTC 1169

Qy 121 AGCCCTGCAGATCTCGCCCTACACACTGGAGTGTCTAGCAGTGGAGGACGCTGTATGATGTC 180
Db 1170 AGCCCTGCAGATCTCGCCCTACACACTGGAGTGTCTAGCAGTGGAGGACGCTGTATGATGTC 1229

Qy 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGGACGCTGTATGATGTC 240
Db 1230 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGGACGCTGTATGATGTC 1289

Qy 241 CTTCTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTTACCCGGGTTTCACTTCTC 300
Db 1410 CTTCTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTTACCCGGGTTTCACTTCTC 1469

Qy 421 GGACCTGCCCATCTCGGATAGTGTCTTCTGTGTCCAGTGTGCCCGCCCATCCCTGTTTAT 480
Db 1470 GGACCTGCCCATCTCGGATAGTGTCTTCTGTGTCCAGTGTGCCCGCCCATCCCTGTTTAT 1529

Qy 481 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCTTATATGTTGTCTGCGGAGGCT 540
Db 1530 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCTTATATGTTGTCTGCGGAGGCT 1589

Qy 541 GGGTCTGGTCGCCATTACTTTGTGTACACAGTAGTATTTGACAAGAGC 589
Db 1590 GGGTCTGGTCGCCATTACTTTGTGTACACAGTAGTATTTGACAAGAGC 1638
```

RESULT 6

```
US-10-295-027-547
; Sequence 547, Application US/10295027
; Publication No. US2003023250A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
```

```
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 547
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-547

Query Match      100.0%; Score 589; DB 17; Length 1662;
Best Local Similarity 100.0%; Pred. No. 4.7e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGACGAGTCATATTTGGCCAGTGTCGACAGCTTTCCTGTGGCTGCGGTGCCACATG 60
Db 1050 CACTCGACGAGTCATATTTGGCCAGTGTCGACAGCTTTCCTGTGGCTGCGGTGCCACATG 1109

Qy 61 CTTCTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTTACCCGGGTTTCACTTCTC 120
Db 1110 CTTCTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTTACCCGGGTTTCACTTCTC 1169

Qy 121 AGCCCTGCAGATCTCGCCCTACACACTGGAGTGTCTTACCCAGGAGAGAGAGGTTT 180
Db 1170 AGCCCTGCAGATCTCGCCCTACACACTGGAGTGTCTTACCCAGGAGAGAGAGGTTT 1229

Qy 181 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGGACGCTGTATGATGTC 240
Db 1230 CTTGCCCAATACCGAGGGGACACTGGAGTGTCTAGCAGTGGAGGACGCTGTATGATGTC 1289

Qy 241 CTTCTGCCAGGCGCTTAAGCCTGGAGCTTCCCTTAAATGGACACGCTGGGTGCTGGAGG 300
Db 1290 CTTCTGCCAGGCGCTTAAGCCTGGAGCTTCCCTTAAATGGACACGCTGGGTGCTGGAGG 1349

Qy 301 CAGTGGCTGTCTCCACCTTCCAGCGGCTCTGCGGGCGCTTCTGCTGTGATGTCCTGT 360
Db 1350 CAGTGGCTGTCTCCACCTTCCAGCGGCTCTGCGGGCGCTTCTGCTGTGATGTCCTGT 1409

Qy 361 ACGTGTGGTGGTGAGCCACCGAGGCGTGGTTCGGGCGGGGACATCTGCGCT 420
Db 1410 ACGTGTGGTGGTGAGCCACCGAGGCGTGGTTCGGGCGGGGACATCTGCGCT 1469

Qy 421 GGACCTGCCCATCTCGGATAGTGTCTTCTGTGTCCAGTGTGCCCGCCCATCCCTGTTTAT 480
Db 1470 GGACCTGCCCATCTCGGATAGTGTCTTCTGTGTCCAGTGTGCCCGCCCATCCCTGTTTAT 1529

Qy 481 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCTTATATGTTGTCTGCGGAGGCT 540
Db 1530 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCTTATATGTTGTCTGCGGAGGCT 1589

Qy 541 GGGTCTGGTCGCCATTACTTTGTGTACACAGTAGTATTTGACAAGAGC 589
Db 1590 GGGTCTGGTCGCCATTACTTTGTGTACACAGTAGTATTTGACAAGAGC 1638
```

Db 1590 GGGTCTGGTCGCCATTACTTTTGCTACACAGGTAGTATTGACAAGAGC 1638

RESULT 7

US-10-403-142-1
 ; Sequence 1, Application US/10403142
 ; Publication No. US20040162236A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Alsbrook et al.
 ; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
 ; FILE REFERENCE: 21402-573A
 ; CURRENT APPLICATION NUMBER: US/10/403,142
 ; CURRENT FILING DATE: 2003-03-31
 ; PRIOR APPLICATION NUMBER: 08/969106
 ; PRIOR FILING DATE: 1997-11-13
 ; PRIOR APPLICATION NUMBER: 09/544511
 ; PRIOR FILING DATE: 2000-04-06
 ; PRIOR APPLICATION NUMBER: 60/369065
 ; PRIOR FILING DATE: 2002-04-01
 ; PRIOR APPLICATION NUMBER: 09/604286
 ; PRIOR FILING DATE: 2000-06-22
 ; PRIOR APPLICATION NUMBER: 09/651200
 ; PRIOR FILING DATE: 2000-08-30
 ; PRIOR APPLICATION NUMBER: 09/662783
 ; PRIOR FILING DATE: 2000-09-12
 ; PRIOR APPLICATION NUMBER: 09/688598
 ; PRIOR FILING DATE: 2000-10-12
 ; PRIOR APPLICATION NUMBER: 09/894159
 ; PRIOR FILING DATE: 2001-06-21
 ; PRIOR APPLICATION NUMBER: 09/918779
 ; PRIOR FILING DATE: 2001-07-31
 ; PRIOR APPLICATION NUMBER: 09/964956
 ; PRIOR FILING DATE: 2001-09-26
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 242
 ; SOFTWARE: CuroSeqList version 0.1
 ; SEQ ID NO 1
 ; LENGTH: 1702
 ; TYPE: DNA
 ; ORGANISM: Homo.sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (21)..(1679)
 US-10-403-142-1

Query Match 100.0%; Score 589; DB 19; Length 1702;
 Best Local Similarity 100.0%; Pred. No. 4,7e-163;
 Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCCATG 60
 Db 1070 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTGCCCATG 1129
 Qy 61 CCTGTCCACAGTGTGGCGTGGTGTGACAGCTTACGCCGCCCTCCACCGGGTTCACTTCTC 120
 Db 1130 CCTGTCCACAGTGTGGCGTGGTGTGACAGCTTACGCCGCCCTCCACCGGGTTCACTTCTC 1189
 Qy 121 AGCCCTGCAGATCTGCGCTACACACTGGCCCTCCTCTACACCGGGAGAGCAGGTGTT 180
 Db 1190 AGCCCTGCAGATCTGCGCTACACACTGGCCCTCCTCTACACCGGGAGAGCAGGTGTT 1249
 Qy 181 CCTGCCAATAACCGAGGGACACTGGAGGTGTAGCAGTGTAGCAGCAGCCCTGTATGACCAG 240
 Db 1250 CCTGCCAATAACCGAGGGACACTGGAGGTGTGTAGCAGTGTAGCAGCAGCCCTGTATGACCAG 1309
 Qy 241 CTTCTGCGAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 300
 Db 1310 CTTCTGCGAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 1369
 Qy 301 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGGCTGTGTATGTCTCGT 360
 Db 1370 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGGCTGTGTATGTCTCGT 1429

Qy 361 ACGTGTGTGTGGTGTAGCCACCGAGGCCAGGGTGGTTCCGGGCCGGGGCATCTGCCT 420
 Db 1430 ACGTGTGTGTGGTGTAGCCACCGAGGCCAGGGTGGTTCCGGGCCGGGGCATCTGCCT 1489
 Qy 421 GGACCTGCGCATCTCGATAGTGCCTTCTGTGTGCCAGGTGGCCCCCATCTGTTTAT 480
 Db 1490 GGAACCTGCGCATCTCGATAGTGCCTTCTGTGTGCCAGGTGGCCCCCATCTGTTTAT 1549
 Qy 481 GGGCTCCATTGTCCAGCTCAGCCAGTGTGTCACTGCCCTATATGTGTGTCTGCCGAGGCCT 540
 Db 1550 GGGCTCCATTGTCCAGCTCAGCCAGTGTGTCACTGCCCTATATGTGTGTCTGCCGAGGCCT 1609
 Qy 541 GGGTGTGTGTGCCATTACTTTGCTACACAGGTAGTATTGACAAGAGC 589
 Db 1610 GGGTGTGTGTGCCATTACTTTGCTACACAGGTAGTATTGACAAGAGC 1658

RESULT 8

US-10-296-770-3
 ; Sequence 3, Application US/10296770
 ; Publication No. US20030104570A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Cabezon Silva, Teresa Elisa Virginia
 ; APPLICANT: Delisse, Anne-Marie Eva Fernande
 ; TITLE OF INVENTION: Triple Fusion Proteins Comprising
 ; TITLE OF INVENTION: Ubiquitin Fused Between Thioredoxin and a Polypeptide of
 ; TITLE OF INVENTION: Interest
 ; FILE REFERENCE: B45221
 ; CURRENT APPLICATION NUMBER: US/10/296,770
 ; CURRENT FILING DATE: 2002-12-13
 ; PRIOR APPLICATION NUMBER: PCT/EP01/06952
 ; PRIOR FILING DATE: 2001-06-19
 ; PRIOR APPLICATION NUMBER: GB 0015619.0
 ; PRIOR FILING DATE: 2000-06-26
 ; PRIOR APPLICATION NUMBER: GB 0026484.6
 ; PRIOR FILING DATE: 2000-10-30
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 3
 ; LENGTH: 2133
 ; TYPE: DNA
 ; ORGANISM: Chimaeric (E. coli - human)
 US-10-296-770-3

Query Match 100.0%; Score 589; DB 15; Length 2133;
 Best Local Similarity 100.0%; Pred. No. 4,8e-163;
 Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGTGCCCATG 60
 Db 1497 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGTGCCCATG 1556
 Qy 61 CTTGTCCACAGTGTGGCGTGGTGTGACAGCTTACGCCGCCCTCCACCGGGTTCACTTCTC 120
 Db 1557 CTTGTCCACAGTGTGGCGTGGTGTGACAGCTTACGCCGCCCTCCACCGGGTTCACTTCTC 1616
 Qy 121 AGCCCTGCAGATCTGCGCTACACACTGGCCCTCCTCTACACCGGGAGAGCAGGTGTT 180
 Db 1617 AGCCCTGCAGATCTGCGCTACACACTGGCCCTCCTCTACACCGGGAGAGCAGGTGTT 1676
 Qy 181 CCTGCCAATAACCGAGGGACACTGGAGGTGTAGCAGTGTAGCAGCAGCCCTGTATGACCAG 240
 Db 1677 CTTGCCAATAACCGAGGGACACTGGAGGTGTAGCAGTGTAGCAGCAGCCCTGTATGACCAG 1736
 Qy 241 CTTCTGCGAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 300
 Db 1737 CTTCTGCGAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 1796
 Qy 301 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGGCTGTGTATGTCTCGT 360
 Db 1797 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGGCTGTGTATGTCTCGT 1856
 Qy 361 ACGTGTGTGTGGTGTAGCCACCGAGGCCAGGGTGGTTCCGGGCCGGGGCATCTGCCT 420

Db 1857 ACCTGCTGGTGGTGGAGCCACACGAGCCAGGGTGGTTCGGGCCGGGGCATCTGCCT 1916
 Qy 421 GGACCTGCCATCCCTGGATAGTGCCTTCCCTGCTGCCAGGTGGCCCATCCCTGTTTAT 480
 Db 1917 GGACCTGCCATCCCTGGATAGTGCCTTCCCTGCTGCCAGGTGGCCCATCCCTGTTTAT 1976
 Qy 481 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTCTGCCGACGGCCT 540
 Db 1977 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTCTGCCGACGGCCT 2036
 Qy 541 GGGCTGCTGCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTCTGCCGACGGCCT 589
 Db 2037 GGGCTGCTGCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTCTGCCGACGGCCT 2085

RESULT 9

US-09-841-894-15
 ; Sequence 15, Application US/09841894
 ; Publication No. US20020086301A1
 ; GENERAL INFORMATION:
 ; APPLICANT: BILLING-MEDEL, PATRICIA
 ; COHEN, MAURICE
 ; COLPITTS, TRACEY L.
 ; FRIEDMAN, PAULA N.
 ; GORDON, JULIAN
 ; GRANADOS, EDWARD N.
 ; HODGES, STEVEN C.
 ; KLASS, MICHAEL R.
 ; KRATOCHVIL, JON D.
 ; ROBERTS-RAPP, LISA
 ; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
 ; FOR DETECTING DISEASES OF THE PROSTATE

NUMBER OF SEQUENCES: 41

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Abbott Laboratories
 STREET: 100 Abbott Park Road
 CITY: Abbott Park
 STATE: IL
 COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/841,894
 FILING DATE: 25-Apr-2001
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/071,710

FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441
 REFERENCE/DOCKET NUMBER: 6083.US.PI

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 847/935-1729
 TELEFAX: 847/938-2623

TELEX: <Unknown>
 INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:
 LENGTH: 2143 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-09-841-894-15

Query Match 100.0%; Score 589; DB 9; Length 2143;
 Best Local Similarity 100.0%; Pred. No. 4.9e-163;
 Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTAATTTGGCCAGTGTGGCAGCTTTCCCTGTGGTGGCGGTGCCACATG 60
 Db 149 CACTCGAGCAGTCTAATTTGGCCAGTGTGGCAGCTTTCCCTGTGGTGGCGGTGCCACATG 208
 Qy 61 CCTGTCCACAGTGTGGCCGFTGTGACAGCTTACAGCGCCCTCAACCGGGTTCACTTCTC 120
 Db 209 CCTGTCCACAGTGTGGCCGFTGTGACAGCTTACAGCGCCCTCAACCGGGTTCACTTCTC 268
 Qy 121 AGCCCTCAGATCTGCCCTACACACTGGCTCCCTCTACACCGGGAGAGCAGGTGTT 180
 Db 269 AGCCCTCAGATCTGCCCTACACACTGGCTCCCTCTACACCGGGAGAGCAGGTGTT 328
 Qy 181 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCAG 240
 Db 329 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCAG 388
 Qy 241 CTTCTGCCAGGCGCTAAGCCTTGAGCTCCCTTCCCTAATGGAACAAGTGGTGTGGAGG 300
 Db 389 CTTCTGCCAGGCGCTAAGCCTTGAGCTCCCTTCCCTAATGGAACAAGTGGTGTGGAGG 448
 Qy 301 CAGTGGCTGCTCCACCTCCACCGCGCTCTGGGGCCCTCTGCCTGTGATGTCTCCGT 360
 Db 449 CAGTGGCTGCTCCACCTCCACCGCGCTCTGGGGCCCTCTGCCTGTGATGTCTCCGT 508
 Qy 361 ACCTGTGTGGTGGTGGAGCCACCGAGGCCAGGGTGGTCCCGGCCGGGGCATCTGCCT 420
 Db 509 ACCTGTGTGGTGGTGGAGCCACCGAGGCCAGGGTGGTCCCGGCCGGGGCATCTGCCT 568
 Qy 421 GGACCTGCCATCTCGATAGTGCCTTCTGCTGTCCAGGTGCCCGCCCATCCCTGTTTAT 480
 Db 569 GGACCTGCCATCTCGATAGTGCCTTCTGCTGTCCAGGTGCCCGCCCATCCCTGTTTAT 628
 Qy 481 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTCTGCCGACGGCCT 540
 Db 629 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTCACTGCCCTATATGGTGTCTGCCGACGGCCT 688
 Qy 541 GGGTCTGCTGCCATTTTACTTTTGTACACAGGTAGTATTTGACAAGAGC 589
 Db 689 GGGTCTGCTGCCATTTTACTTTTGTACACAGGTAGTATTTGACAAGAGC 737

RESULT 10

US-09-841-894-16
 ; Sequence 16, Application US/09841894
 ; Publication No. US20020086301A1
 ; GENERAL INFORMATION:
 ; APPLICANT: BILLING-MEDEL, PATRICIA
 ; COHEN, MAURICE
 ; COLPITTS, TRACEY L.
 ; FRIEDMAN, PAULA N.
 ; GORDON, JULIAN
 ; GRANADOS, EDWARD N.
 ; HODGES, STEVEN C.
 ; KLASS, MICHAEL R.
 ; KRATOCHVIL, JON D.
 ; ROBERTS-RAPP, LISA

TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
 FOR DETECTING DISEASES OF THE PROSTATE

NUMBER OF SEQUENCES: 41
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Abbott Laboratories
 STREET: 100 Abbott Park Road
 CITY: Abbott Park
 STATE: IL
 COUNTRY: USA

ZIP: 60064-3500
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: 09/071,710
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441
 REFERENCE/DOCKET NUMBER: 6083.US.PI

TELECOMMUNICATION INFORMATION:
 TELEPHONE: 847/935-1729
 TELEFAX: 847/938-2623

TELEX: <Unknown>
 INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:
 LENGTH: 2143 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-09-841-894-15

Query Match 100.0%; Score 589; DB 9; Length 2143;
 Best Local Similarity 100.0%; Pred. No. 4.9e-163;
 Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
; APPLICATION NUMBER: US/09/841,894
; FILING DATE: 25-Apr-2001
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE: <unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.PI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX: <unknown>
; INFORMATION FOR SEQ ID NO: 16:
;     SEQUENCE CHARACTERISTICS:
;     LENGTH: 2152 base pairs
;     TYPE: nucleic acid
;     STRANDEDNESS: single
;     TOPOLOGY: linear
;     SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-841-894-16

Query Match      100.0%; Score 589; DB 9; Length 2152;
Best Local Similarity 100.0%; Pred. No. 4.9e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db 157 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 216
Qy 61 CCGTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCCGCTTACCGGGTTCACTTCTC 120
Db 217 CCGTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCCGCTTACCGGGTTCACTTCTC 276
Qy 121 AGCCCTGCAGATCTCGCCCTACACACTGGCCCTCTTACCACCGGGAGAGACAGGTGTT 180
Db 277 AGCCCTGCAGATCTCGCCCTACACACTGGCCCTCTTACCACCGGGAGAGACAGGTGTT 336
Qy 181 CCGTCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGGACAGCCGTGATGACAG 240
Db 337 CCGTCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGAGGACAGCCGTGATGACAG 396
Qy 241 CTTCTCGCAGGCTTAAGCCTGAGCTCCCTTCCCTAAATGACACAGCTGGGTGCTGGAGG 300
Db 397 CTTCTCGCAGGCTTAAGCCTGAGCTCCCTTCCCTAAATGACACAGCTGGGTGCTGGAGG 456
Qy 301 CAGTGGCTGTCTCCACCTCCACCCCGGCTCTGCGGGGCTTCTGCTGTGATGTCCTCGT 360
Db 457 CAGTGGCTGTCTCCACCTCCACCCCGGCTCTGCGGGGCTTCTGCTGTGATGTCCTCGT 516
Qy 361 ACGTGTGTGTGGGTGAGCCACCGAGGCGAGGGTGGTTCCGGGCGCGGGGCATCTGCCT 420
Db 517 ACGTGTGTGTGGGTGAGCCACCGAGGCGAGGGTGGTTCCGGGCGCGGGGCATCTGCCT 576
Qy 421 GGACTCGCCATCTGGATAGTGCCTTCCCTGTGCCAGTGTGCCATCCCTGTTTAT 480
Db 577 GGACTCGCCATCTGGATAGTGCCTTCCCTGTGCCAGTGTGCCATCCCTGTTTAT 636
Qy 481 GGGTCTCAATTGTCCAGCTCAGCCAGTCTGTCACTGCCTTATATGTGTGTGCGCGAGGCT 540
Db 637 GGGTCTCAATTGTCCAGCTCAGCCAGTCTGTCACTGCCTTATATGTGTGTGCGCGAGGCT 696
Qy 541 GGGTCTGTGTGCGCAATTACTTTGTGTACACAGGTAGTATTGACAAGAGC 589
Db 697 GGGTCTGTGTGCGCAATTACTTTGTGTACACAGGTAGTATTGACAAGAGC 745

RESULT 11
US-10-295-027-901
; Sequence 901, Application US/10295027
; Publication No. US2003023250A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; FILE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 901
; LENGTH: 2582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(2582)
; OTHER INFORMATION: n = g, a, c or t
US-10-295-027-901

Query Match      100.0%; Score 589; DB 17; Length 2582;
Best Local Similarity 100.0%; Pred. No. 4.9e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db 1359 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1418
Qy 61 CCGTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCCGCTTACCGGGTTCACTTCTC 120
Db 1419 CCGTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCCGCTTACCGGGTTCACTTCTC 1478
Qy 121 AGCCCTGCAGATCTGCGCTTACACACTGGCTTCCCTCTACCCCGGGAGAGCAGGTGTT 180
Db 1479 AGCCCTGCAGATCTGCGCTTACACACTGGCTTCCCTCTACCCCGGGAGAGCAGGTGTT 1538
Qy 181 CCGTCCCAATACCGAGGGGACACTGGAGGTGTGTAGCAGTGAGGACAGCCGTGATGACAG 240
Db 1539 CCGTCCCAATACCGAGGGGACACTGGAGGTGTGTAGCAGTGAGGACAGCCGTGATGACAG 1598
Qy 241 CTTCTCGCAGGCTTAAGCCTTCCCTTCCCTAAATGACACAGCTGGGTGCTGGAGG 300
Db 1599 CTTCTCGCAGGCTTAAGCCTTCCCTTCCCTAAATGACACAGCTGGGTGCTGGAGG 1658
Qy 301 CAGTGGCTGTCTCCACCTCCACCCCGGCTCTGCGGGGCTTCTGCTGTGATGTCCTCGT 360
```

```

Db 1659 CAGTGGCCCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCGT 1718
QY 361 ACGTGTGGTGGGTGAGCCACCGAGCCAGGGTGTTCGGGCGGGGCACTGCGCT 420
Db 1719 ACGTGTGGTGGGTGAGCCACCGAGCCAGGGTGTTCGGGCGGGGCACTGCGCT 1778
QY 421 GGACCTGCCATCTCCGTAGTGCCTCTGCTGCCAGGTGGGCCCATCCCTGTTTAT 480
Db 1779 GGACCTGCCATCTCCGTAGTGCCTCTGCTGCCAGGTGGGCCCATCCCTGTTTAT 1838
QY 481 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTACTGCTATATGTTCTGCGGAGGCT 540
Db 1839 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTACTGCTATATGTTCTGCGGAGGCT 1898
QY 541 GGGTCTGGTGGCCATTTACTTTGCTACACAGTGTAGTATTGACAGAGC 589
Db 1899 GGGTCTGGTGGCCATTTACTTTGCTACACAGTGTAGTATTGACAGAGC 1947

```

```

RESULT 12
US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. US2002002248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriack
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

```

```

Query Match 100.0%; Score 589; DB 9; Length 2904;
Best Local Similarity 100.0%; Pred. No. 5e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGTGGCGGTGCCACATG 60
Db 905 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGTGGCGGTGCCACATG 964

QY 61 CCGTGTCCACAGTGTGGCGGTGTGACAGCTTCACCGCCCTCACCGGGTTTCACTTCTC 120
Db 965 CCGTGTCCACAGTGTGGCGGTGTGACAGCTTCACCGCCCTCACCGGGTTTCACTTCTC 1024

QY 121 AGCCCTGCAGATCTCCGCTACACACTGGCTTCCCTCTACACCGGGAGAGCAGGTGT 180
Db 1025 AGCCCTGCAGATCTCCGCTACACACTGGCTTCCCTCTACACCGGGAGAGCAGGTGT 1084

QY 181 CCGTGTCCAAATACGAGGGACACTGGAGGTGTAGCAGTGGAGCCCTGTATGACACAG 240

```

```

Db 1085 CCTGCCCAATATCCGAGGGGACACTGGAGGTGTAGCAGTGTAGGACAGCCCTGATGACCAG 1144
QY 241 CTTCTCTCCAGGCCCTTAAGCCTGAGCTCCCTTCCCTAAATGACACGTTGGGTGCTGGAGG 300
Db 1145 CTTCTCTCCAGGCCCTTAAGCCTGAGCTCCCTTCCCTAAATGACACGTTGGGTGCTGGAGG 1204
QY 301 CAGTGGCTGTCTCCCACTCCACCCGCGCTCTGCGGGCCCTCTGCTGTGATGTCTCCGT 360
Db 1205 CAGTGGCTGTCTCCCACTCCACCCGCGCTCTGCGGGCCCTCTGCTGTGATGTCTCCGT 1264
QY 361 ACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGCGGGGCACTGCGCT 420
Db 1265 ACGTGTGGTGGGTGAGCCACCGAGGCCAGGGTGTTCGGGCGGGGCACTGCGCT 1324
QY 421 GGACCTGCCATCTCCGTAGTGCCTTCTGCTGCCAGGTGGGCCCATCCCTGTTTAT 480
Db 1325 GGACCTGCCATCTCCGTAGTGCCTTCTGCTGCCAGGTGGGCCCATCCCTGTTTAT 1384
QY 481 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTACTGCTATATGTTCTGCGGAGGCT 540
Db 1385 GGGCTCCATTTGTCAGCTCAGCCAGTCTGTACTGCTATATGTTCTGCGGAGGCT 1444
QY 541 GGGTCTGGTGGCCATTTACTTTGCTACACAGTGTAGTATTGACAGAGC 589
Db 1445 GGGTCTGGTGGCCATTTACTTTGCTACACAGTGTAGTATTGACAGAGC 1493

```

```

RESULT 13
US-09-780-669-703
; Sequence 703, Application US/09780669
; Patent No. US2002005197A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriack
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hurl, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-780-669-703

```

```

Query Match 100.0%; Score 589; DB 9; Length 2904;
Best Local Similarity 100.0%; Pred. No. 5e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGTGGCGGTGCCACATG 60
Db 905 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGTGGCGGTGCCACATG 964

```

Qy 61 CCTGTCCACAGTGTGGCGGTGGTACAGCTTTCAGCGCCCTCACCAGGTTTCACTTCTC 120
Db 965 CCTGTCCACAGTGTGGCGGTGGTACAGCTTTCAGCGCCCTCACCAGGTTTCACTTCTC 1024
Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGTT 180
Db 1025 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGTT 1084
Qy 181 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCAG 240
Db 1085 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCAG 1144
Qy 241 CTTCTGTCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGGACACAGTGGGTCTGGAGG 300
Db 1145 CTTCTGTCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGGACACAGTGGGTCTGGAGG 1204
Qy 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCGGGCCATCTGCCT 360
Db 1205 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCGGGCCATCTGCCT 1264
Qy 361 ACGTGTGGTGGTGGGTAGCCACCGAGGCGCAGGTGGTTCGGGGCCGGGGCATCTGCCT 420
Db 1265 ACGTGTGGTGGTGGGTAGCCACCGAGGCGCAGGTGGTTCGGGGCCGGGGCATCTGCCT 1324
Qy 421 GGACTCGCCATCCTGGATAGTGCCTTCCCTGCTGCCAGTGGCCCATCCCTGTTTAT 480
Db 1325 GGACTCGCCATCCTGGATAGTGCCTTCCCTGCTGCCAGTGGCCCATCCCTGTTTAT 1384
Qy 481 GGGTCTCATTTGTCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 540
Db 1385 GGGTCTCATTTGTCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 1444
Qy 541 GGGTCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAAGAGC 589
Db 1445 GGGTCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAAGAGC 1493

RESULT 14
US-09-822-827-703
; Sequence 703, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822.827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-822-827-703

Query Match 100.0%; Score 589; DB 9; Length 2904;
Best Local Similarity 100.0%; Pred. No. 5e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGTGCCACATG 60
Db 905 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGTGCCACATG 964
Qy 61 CCTGTCCACAGTGTGGCGGTGGTACAGCTTTCAGCGCCCTCACCAGGTTTCACTTCTC 120
Db 965 CCTGTCCACAGTGTGGCGGTGGTACAGCTTTCAGCGCCCTCACCAGGTTTCACTTCTC 1024
Qy 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGTT 180
Db 1025 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGTT 1084
Qy 181 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCAG 240

Db 1085 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1144
Qy 241 CTTCTGTCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGGACACAGTGGGTCTGGAGG 300
Db 1145 CTTCTGTCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGGACACAGTGGGTCTGGAGG 1204
Qy 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCGGGCCATCTGCCT 360
Db 1205 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCGGGCCATCTGCCT 1264
Qy 361 ACGTGTGGTGGTGGGTAGCCACCGAGGCGCAGGTGGTTCGGGGCCGGGGCATCTGCCT 420
Db 1265 ACGTGTGGTGGTGGGTAGCCACCGAGGCGCAGGTGGTTCGGGGCCGGGGCATCTGCCT 1324
Qy 421 GGACTCGCCATCCTGGATAGTGCCTTCCCTGCTGCCAGTGGCCCATCCCTGTTTAT 480
Db 1325 GGACTCGCCATCCTGGATAGTGCCTTCCCTGCTGCCAGTGGCCCATCCCTGTTTAT 1384
Qy 481 GGGTCTCATTTGTCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 540
Db 1385 GGGTCTCATTTGTCAGCTCAGCCAGTCTGTCACTGCCTATATGTTGTCTGCCGAGGCCT 1444
Qy 541 GGGTCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAAGAGC 589
Db 1445 GGGTCTGGTGGCCATTACTTTGCTACACAGGTAGTATTGACAAGAGC 1493

RESULT 15
US-09-895-793-703
; Sequence 703, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriack
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C2
; CURRENT APPLICATION NUMBER: US/09/895.793
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-895-793-703

Query Match 100.0%; Score 589; DB 9; Length 2904;
Best Local Similarity 100.0%; Pred. No. 5e-163;
Matches 589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGTGCCACATG 60

Db	905	CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGTGCCACATG	964
Qy	61	CGTGTCCACACAGTGTGGCGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTTACCTTCTC	120
Db	965	CTGTGCCACACAGTGTGGCGTGGTGACAGCTTTCAGCGCCCTCACCGGGTTTACCTTCTC	1024
Qy	121	AGCCCTGCAGATCCTGCCCTACACACTGGCCTCCCTCTACACCGGGAGAGCAGGTGTT	180
Db	1025	AGCCCTGCAGATCCTGCCCTACACACTGGCCTCCCTCTACACCGGGAGAGCAGGTGTT	1084
Qy	181	CTGTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCCAG	240
Db	1085	CTGTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCCAG	1144
Qy	241	CTTCTGTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG	300
Db	1145	CTTCTGTGCCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG	1204
Qy	301	CAGTGGCCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCCTGTGATGTCTCCGT	360
Db	1205	CAGTGGCCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCCTGTGATGTCTCCGT	1264
Qy	361	ACGTGTGGTGGTGGTGAGCCACCGAGGCCAAGGTGGTTCCGGGCCGGGGCATCTGCCT	420
Db	1265	ACGTGTGGTGGTGGTGAGCCACCGAGGCCAAGGTGGTTCCGGGCCGGGGCATCTGCCT	1324
Qy	421	GGACCTCGCCATCCTGGATAGTGCCTTCTGCTGCCAGGTGGGCCCATCCCTGTTTAT	480
Db	1325	GGACCTCGCCATCCTGGATAGTGCCTTCTGCTGCCAGGTGGGCCCATCCCTGTTTAT	1384
Qy	481	GGGCTCCATTTGCCAGCTCAGCCAGTCTGTCACTGCCTATATGGTGTCTGCCGACGGCCT	540
Db	1385	GGGCTCCATTTGCCAGCTCAGCCAGTCTGTCACTGCCTATATGGTGTCTGCCGACGGCCT	1444
Qy	541	GGGTCTGGTCGCCATTTACTTTGCTACACAGGTAGTATTTGACAAAGGC	589
Db	1445	GGGTCTGGTCGCCATTTACTTTGCTACACAGGTAGTATTTGACAAAGGC	1493

Search completed: June 16, 2005, 10:18:58
Job time : 428.104 secs


```

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-071-710-15

Query Match      100.0%; Score 364; DB 3; Length 2143;
Best Local Similarity 100.0%; Pred. No. 3.1e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
DB 149 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 208

QY 61 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 120
DB 209 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 268

QY 121 AGCCCTGCAGATCTGCTCCCTACACACTGGCCTCCCTTACACACCGGGAGAGCAGGTGT 180
DB 269 AGCCCTGCAGATCTGCTCCCTACACACTGGCCTCCCTTACACACCGGGAGAGCAGGTGT 328

QY 181 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 240
DB 329 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 388

QY 241 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 300
DB 389 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 448

QY 301 CAGTGGCTGCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 360
DB 449 CAGTGGCTGCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 508

QY 361 ACGT 364
DB 509 ACGT 512

```

RESULT 2

US-09-525-397-15
Sequence 15, Application US/09525397
Patent No. 6252047

GENERAL INFORMATION:

APPLICANT: BILLING-MEDEL, PATRICIA
APPLICANT: COHEN, MAURICE
APPLICANT: COLPITTS, TRACEY L.
APPLICANT: FRIEDMAN, PAULA N.
APPLICANT: GORDON, JULIAN
APPLICANT: GRANADOS, EDWARD N.
APPLICANT: HODGES, STEVEN C.
APPLICANT: KLASS, MICHAEL R.
APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.

TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE PROSTATE

NUMBER OF SEQUENCES: 41

CORRESPONDENCE ADDRESS:

ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA

ZIP: 60064-3500

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS

SOFTWARE: Fast-SEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/525,397

FILING DATE:

```

; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-525-397-15

```

```

Query Match      100.0%; Score 364; DB 3; Length 2143;
Best Local Similarity 100.0%; Pred. No. 3.1e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
DB 149 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 208

QY 61 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 120
DB 209 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 268

QY 121 AGCCCTGCAGATCTGCTCCCTACACACTGGCCTCCCTTACACACCGGGAGAGCAGGTGT 180
DB 269 AGCCCTGCAGATCTGCTCCCTACACACTGGCCTCCCTTACACACCGGGAGAGCAGGTGT 328

QY 181 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 240
DB 329 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 388

QY 241 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 300
DB 389 CTTGTCCTCCACAGTGTGGCCGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 448

QY 301 CAGTGGCTGCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 360
DB 449 CAGTGGCTGCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCTCCACCT 508

QY 361 ACGT 364
DB 509 ACGT 512

```

RESULT 3

US-09-071-710-16

Sequence 16, Application US/09071710
Patent No. 6130043

GENERAL INFORMATION:

APPLICANT: BILLING-MEDEL, PATRICIA
APPLICANT: COHEN, MAURICE
APPLICANT: COLPITTS, TRACEY L.
APPLICANT: FRIEDMAN, PAULA N.
APPLICANT: GORDON, JULIAN
APPLICANT: GRANADOS, EDWARD N.
APPLICANT: HODGES, STEVEN C.
APPLICANT: KLASS, MICHAEL R.
APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.

TITLE OF INVENTION: REAGENTS AND METHODS USEFUL FOR DETECTING DISEASES OF THE PROSTATE

NUMBER OF SEQUENCES: 41

;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Abbott Laboratories
;; STREET: 100 Abbott Park Road
;; CITY: Abbott Park
;; STATE: IL
;; COUNTRY: USA
;; ZIP: 60064-3500
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/071,710
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/850,713
;; FILING DATE: 02-MAY-1997
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Becker, Cheryl L.
;; REGISTRATION NUMBER: 35,441
;; REFERENCE/DOCKET NUMBER: 6083.US.P1
;; TELEPHONE: 847/935-1729
;; TELEFAX: 847/938-2623
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 16:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2152 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-09-071-710-16

Query Match 100.0%; Score 364; DB 3; Length 2152;
Best Local Similarity 100.0%; Pred. No. 3.1e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 60
Db 157 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 216

Qy 61 CTTGCTCCACAGTGTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 120
Db 217 CTTGCTCCACAGTGTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 276

Qy 121 AGCCCTGCAGATCCTGCGCTTACACACTGGCTCCCTCTACCCCGGGAGACGAGGTGT 180
Db 277 AGCCCTGCAGATCCTGCGCTTACACACTGGCTCCCTCTACCCCGGGAGACGAGGTGT 336

Qy 181 CCTGCCCAATACCGAGGGGACACTGGAGTGTGTAGCAGTGAGGACAGCCTGTATGACCAG 240
Db 337 CCTGCCCAATACCGAGGGGACACTGGAGTGTGTAGCAGTGAGGACAGCCTGTATGACCAG 396

Qy 241 CTTCTCCGACGCGCTTAAGCCTTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 300
Db 397 CTTCTCCGACGCGCTTAAGCCTTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 456

Qy 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCGCTTGCCTGTGATGTCCTCGT 360
Db 457 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCGCTTGCCTGTGATGTCCTCGT 516

Qy 361 ACGT 364
Db 517 ACGT 520

RESULT 4
US-09-525-397-16
; Sequence 16, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:

;; APPLICANT: BILLING-MEDEL, PATRICIA
;; APPLICANT: COHEN, MAURICE
;; APPLICANT: COLPITTS, TRACEY L.
;; APPLICANT: FRIEDMAN, PAULA N.
;; APPLICANT: GORDON, JULIAN
;; APPLICANT: GRANADOS, EDWARD N.
;; APPLICANT: HODGES, STEVEN C.
;; APPLICANT: KASS, MICHAEL R.
;; APPLICANT: KRATOCHVIL, JON D.
;; APPLICANT: ROBERTS-RAPP, LISA
;; APPLICANT: RUSSELL, JOHN C.
;; APPLICANT: STROUPE, STEPHEN D.
;; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
;; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
;; NUMBER OF SEQUENCES: 41
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Abbott Laboratories
;; STREET: 100 Abbott Park Road
;; CITY: Abbott Park
;; STATE: IL
;; COUNTRY: USA
;; ZIP: 60064-3500
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSeq for Windows Version 2.0
;; CURRENT APPLICATION DATA: US/09/525,397
;; APPLICATION NUMBER: US/09/525,397
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 09/071,710
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Becker, Cheryl L.
;; REGISTRATION NUMBER: 35,441
;; REFERENCE/DOCKET NUMBER: 6083.US.P1
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 847/935-1729
;; TELEFAX: 847/938-2623
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 16:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 2152 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
US-09-525-397-16

Query Match 100.0%; Score 364; DB 3; Length 2152;
Best Local Similarity 100.0%; Pred. No. 3.1e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 60
Db 157 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 216

Qy 61 CTTGCTCCACAGTGTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 120
Db 217 CTTGCTCCACAGTGTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTGCCACATG 276

Qy 121 AGCCCTGCAGATCCTGCGCTTACACACTGGCTCCCTCTACCCCGGGAGACGAGGTGT 180
Db 277 AGCCCTGCAGATCCTGCGCTTACACACTGGCTCCCTCTACCCCGGGAGACGAGGTGT 336

Qy 181 CCTGCCCAATACCGAGGGGACACTGGAGTGTGTAGCAGTGAGGACAGCCTGTATGACCAG 240
Db 337 CCTGCCCAATACCGAGGGGACACTGGAGTGTGTAGCAGTGAGGACAGCCTGTATGACCAG 396

Qy 241 CTTCTCCGACGCGCTTAAGCCTTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 300
Db 397 CTTCTCCGACGCGCTTAAGCCTTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 456

QY 301 CAGTGGCTGTCTCCACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 360
Db |||||
457 CAGTGGCTGTCTCCACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 516
|||

QY 361 ACGT 364
Db |||||
517 ACGT 520

RESULT 5

US-09-636-215-703

; Sequence 703, Application US/09636215

; Patent No. 6620922

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.42717C17

; CURRENT APPLICATION NUMBER: US/09/636,215

; NUMBER OF SEQ ID NOS: 852

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 703

; LENGTH: 2904

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-636-215-703

Query Match 100.0%; Score 364; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 3.4e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db |||||

QY 61 CCTGTCCACAGTGTGGCGGTGTGACAGCTTACGCGCCCTCACCGGGTTTCACTTCTC 120
Db |||||

QY 121 AGCCCTGCAGATCTCGCCCTACACACTGGCTCCCTCTACACCGGGAGAGCAGGTGTT 180
Db |||||

QY 181 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCAG 240
Db |||||

QY 241 CTTCTGCCAGGCCCTTAAGCCTGTGAGTCCCTTCCCTTAATGGAACACGTGGGTGTGGAGG 300
Db |||||

QY 301 CAGTGGCTGTCTCCACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 360
Db |||||

QY 1205 CAGTGGCTGTCTCCACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 1264
Db |||||

QY 361 ACGT 364
Db |||||
1265 ACGT 1268

RESULT 6

US-09-685-166A-703

; Sequence 703, Application US/09685166A

; Patent No. 6630305

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C21

; CURRENT APPLICATION NUMBER: US/09/685,166A

; NUMBER OF SEQ ID NOS: 898

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 703

; LENGTH: 2904

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-685-166A-703

Query Match 100.0%; Score 364; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 3.4e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db |||||

QY 61 CCTGTCCACAGTGTGGCGGTGTGACAGCTTACGCGCCCTCACCGGGTTTCACTTCTC 120
Db |||||

QY 121 AGCCCTGCAGATCTCGCCCTACACACTGGCTCCCTCTACACCGGGAGAGCAGGTGTT 180
Db |||||

QY 181 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCAG 240
Db |||||

QY 241 CTTCTGCCAGGCCCTTAAGCCTGTGAGTCCCTTCCCTTAATGGAACACGTGGGTGTGGAGG 300
Db |||||

QY 301 CAGTGGCTGTCTCCACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 360
Db |||||

QY 1205 CAGTGGCTGTCTCCACCTCCACCCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 1264
Db |||||

RESULT 7

US-09-679-426-703
; Sequence 703, Application US/09679426
; Patent No. 6759515

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C20

CURRENT APPLICATION NUMBER: US/09/679,426

CURRENT FILING DATE: 2000-10-02

NUMBER OF SEQ ID NOS: 895

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 703

LENGTH: 2904

TYPE: DNA

ORGANISM: Homo sapiens

US-09-679-426-703

Query Match 100.0%; Score 364; DB 4; Length 2904;

Best Local Similarity 100.0%; Pred. No. 3.4e-90;

Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTCACATG 60

Db 905 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTCACATG 964

Qy 61 CCTGTCCACAGTGTGGCCGTGTGACAGCTTACAGCCGCTTACCCGCTTCTC 120

Db 965 CCTGTCCACAGTGTGGCCGTGTGACAGCTTACAGCCGCTTACCCGCTTCTC 1024

Qy 121 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACCCACCGGAGAGCAGGTGTT 180

Db 1025 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACCCACCGGAGAGCAGGTGTT 1084

Qy 181 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCG 240

Db 1085 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCG 1144

Qy 241 CTTCCTGCAGGCTTAAAGCCTGAGCTTCCCTTAAATGACACAGTGGGTGCTGGAGG 300

Db 1145 CTTCCTGCAGGCTTAAAGCCTGAGCTTCCCTTAAATGACACAGTGGGTGCTGGAGG 1204

Qy 301 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCTGTGATGTCCTCGT 360

Db 1205 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCTGTGATGTCCTCGT 1264

Qy 361 ACCT 364

Db 1265 ACCT 1268

RESULT 8

US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. 680746

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C23

CURRENT APPLICATION NUMBER: US/09/759,143

CURRENT FILING DATE: 2001-01-12

NUMBER OF SEQ ID NOS: 934

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 703

LENGTH: 2904

TYPE: DNA

ORGANISM: Homo sapiens

US-09-759-143-703

Query Match 100.0%; Score 364; DB 4; Length 2904;

Best Local Similarity 100.0%; Pred. No. 3.4e-90;

Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTCACATG 60

Db 905 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGTCACATG 964

Qy 61 CCTGTCCACAGTGTGGCCGTGTGACAGCTTACAGCCGCTTACCCGCTTCTC 120

Db 965 CCTGTCCACAGTGTGGCCGTGTGACAGCTTACAGCCGCTTACCCGCTTCTC 1024

Qy 121 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACCCACCGGAGAGCAGGTGTT 180

Db 1025 AGCCCTGCAGATCTGCCCTTACACACTGGCTTCCCTTACCCACCGGAGAGCAGGTGTT 1084

Qy 181 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCG 240

Db 1085 CCTGCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCCTGATGACCG 1144

Qy 241 CTTCCTGCAGGCTTAAAGCCTGAGCTTCCCTTAAATGACACAGTGGGTGCTGGAGG 300

Db 1145 CTTCCTGCAGGCTTAAAGCCTGAGCTTCCCTTAAATGACACAGTGGGTGCTGGAGG 1204

Qy 301 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCTGTGATGTCCTCGT 360

Db 1205 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCTGTGATGTCCTCGT 1264

Qy 361 ACCT 364

Db 1265 ACCT 1268

RESULT 9

US-09-651-236-703
; Sequence 703, Application US/09651236
; Patent No. 6818751

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqi

```

; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42718C18
; CURRENT APPLICATION NUMBER: US/09/651,236
; NUMBER OF SEQ ID NOS: 865
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-651-236-703

Query Match      100.0%; Score 364; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 3.4e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGGTGCCACATG 60
Db      905  CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTCCCTGTGGCTGCCGGTGCCACATG 964

QY      61  CTTGTCCCAACAGTGTGGCGTGGTGACAGCTTCACGCGCCCTCACCGGGTTCACCTTCTC 120
Db      965  CTTGTCCCAACAGTGTGGCGTGGTGACAGCTTCACGCGCCCTCACCGGGTTCACCTTCTC 1024

QY      121  AGCCCTGCAGATTCCTGCCCTACACACTGGCCCTCCCTCTACCAACCGGGAGAGCAGGTGT 180
Db      1025  AGCCCTGCAGATTCCTGCCCTACACACTGGCCCTCCCTCTACCAACCGGGAGAGCAGGTGT 1084

QY      181  CTTGCCCCAAATACCGAGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCAAG 240
Db      1085  CTTGCCCCAAATACCGAGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCAAG 1144

QY      241  CTTCTGTCCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 300
Db      1145  CTTCTGTCCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 1204

QY      301  CAGTGGCCTGTCTCCACCTCCACCGCGCTCTGCGGGGCGCTCTGCTGTGATGTCTCCGT 360
Db      1205  CAGTGGCCTGTCTCCACCTCCACCGCGCTCTGCGGGGCGCTCTGCTGTGATGTCTCCGT 1264

QY      361  ACGT 364
Db      1265  ACGT 1268

RESULT 10
US-09-020-956-110
; Sequence 110, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA

```

```

; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-110

Query Match      100.0%; Score 364; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 3.6e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGGTGCCACATG 60
Db      1333  CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGGCTGCCGGTGCCACATG 1392

QY      61  CTTCTGCCACAGTGTGCCGTGGTGACAGCTTTCAGCGCCCTTACCGGGTTCACCTTCTC 120
Db      1393  CTTCTGCCACAGTGTGCCGTGGTGACAGCTTTCAGCGCCCTTACCGGGTTCACCTTCTC 1452

QY      121  AGCCCTGCAGTCTCGCCCTACACACTGGCTCCCTCTACCAACCGGGAGAGCAGGTGT 180
Db      1453  AGCCCTGCAGTCTCGCCCTACACACTGGCTCCCTCTACCAACCGGGAGAGCAGGTGT 1512

QY      181  CTTGCCCAAATACCGAGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCAAG 240
Db      1513  CTTGCCCAAATACCGAGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACCAAG 1572

QY      241  CTTCTGCCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 300
Db      1573  CTTCTGCCAGGCCCTTAAGCCTGGAGTCCCTTCCCTTAATGACACGCTGGGTGCTGGAGG 1632

QY      301  CAGTGGCCTGTCTCCACCTCCACCGCGCTCTGCGGGGCGCTCTGCTGTGATGTCTCCGT 360
Db      1633  CAGTGGCCTGTCTCCACCTCCACCGCGCTCTGCGGGGCGCTCTGCTGTGATGTCTCCGT 1692

QY      361  ACGT 364
Db      1693  ACGT 1696

RESULT 11
US-09-030-607-110
; Sequence 110, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue

```

CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/030,607
FILING DATE: 25-FEB-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.427C3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 110:
SEQUENCE CHARACTERISTICS:
LENGTH: 3410 base pairs
Type: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
US-09-030-607-110

Query Match 100.0%; Score 364; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 3.6e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGTGGCTGCCGATG 60
Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGTGGCTGCCGATG 1392

Qy 61 CCTGTCCACAGTGTGGCCGTGGTGGACAGCTTACAGCCGCTCACCGGGTTCACCTTCTC 120
Db 1393 CCTGTCCACAGTGTGGCCGTGGTGGACAGCTTACAGCCGCTCACCGGGTTCACCTTCTC 1452

Qy 121 AGCCCTGCAGATCTCTGCCCTACACACTGGCTTCCCTCTACACCGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCTCTGCCCTACACACTGGCTTCCCTCTACACCGGAGAGCAGGTGTT 1512

Qy 181 CCTGCCAAATACCGAGGGACACTGGAGTGTGTAGCAGTGAGGACAGCTGTATGATGTC 240
Db 1513 CCTGCCAAATACCGAGGGACACTGGAGTGTGTAGCAGTGAGGACAGCTGTATGATGTC 1572

Qy 241 CTTCTGCCAGGCCCTAAGCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGG 300
Db 1573 CTTCTGCCAGGCCCTAAGCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGG 1632

Qy 301 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCCCTGTGTATGTCCTCGT 360
Db 1633 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCCCTGTGTATGTCCTCGT 1692

Qy 361 ACGT 364
Db 1693 ACGT 1696

RESULT 12
US-09-439-313-110
Sequence 110, Application US/09439313
Patent No. 6329505
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan Louise

APPLICANT: Jiang Yuqui
APPLICANT: Reed, Steven G.
APPLICANT: Kalos, Michael
APPLICANT: Fanger, Gary
APPLICANT: Retter, Mark
APPLICANT: Solk, John
APPLICANT: Day, Craig
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C9
CURRENT APPLICATION NUMBER: US/09/439,313
CURRENT FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 575
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 110
LENGTH: 3410
TYPE: DNA
ORGANISM: Homo sapien
US-09-439-313-110

Query Match 100.0%; Score 364; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 3.6e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGTGGCTGCCGATG 60
Db 1333 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCTGTGTGGCTGCCGATG 1392

Qy 61 CCTGTCCACAGTGTGGCCGTGGTGGACAGCTTACAGCCGCTCACCGGGTTCACCTTCTC 120
Db 1393 CCTGTCCACAGTGTGGCCGTGGTGGACAGCTTACAGCCGCTCACCGGGTTCACCTTCTC 1452

Qy 121 AGCCCTGCAGATCTCTGCCCTACACACTGGCTTCCCTCTACACCGGAGAGCAGGTGTT 180
Db 1453 AGCCCTGCAGATCTCTGCCCTACACACTGGCTTCCCTCTACACCGGAGAGCAGGTGTT 1512

Qy 181 CCTGCCAAATACCGAGGGACACTGGAGTGTGTAGCAGTGAGGACAGCTGTATGATGTC 240
Db 1513 CCTGCCAAATACCGAGGGACACTGGAGTGTGTAGCAGTGAGGACAGCTGTATGATGTC 1572

Qy 241 CTTCTGCCAGGCCCTAAGCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGG 300
Db 1573 CTTCTGCCAGGCCCTAAGCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGG 1632

Qy 301 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCCCTGTGTATGTCCTCGT 360
Db 1633 CAGTGGCTGTCTCCACCTCCACCGGCTCTGGGGGCTCTGCCCTGTGTATGTCCTCGT 1692

Qy 361 ACGT 364
Db 1693 ACGT 1696

RESULT 13
US-09-352-616A-110
Sequence 110, Application US/09352616A
Patent No. 6395278
GENERAL INFORMATION:
APPLICANT: Dillon, Davin C.
APPLICANT: Harlocker, Susan Louise
APPLICANT: Jiang, Yuqui
APPLICANT: Xu, Jiangchun
APPLICANT: Mitcham, Jennifer Lynn
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
FILE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427C8
CURRENT APPLICATION NUMBER: US/09/352,616A
CURRENT FILING DATE: 1999-07-13
NUMBER OF SEQ ID NOS: 472
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 110
LENGTH: 3410
TYPE: DNA

; ORGANISM: Homo sapien
US-09-352-616A-110

Query Match 100.0%; Score 364; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 3.6e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
|
Db 1333 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1392

QY 61 CTTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCGCCCTCACCGGGTTCACTTTCTC 120
|
Db 1393 CTTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCGCCCTCACCGGGTTCACTTTCTC 1452

QY 121 AGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGT 180
|
Db 1453 AGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGT 1512

QY 181 CTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 240
|
Db 1513 CTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 1572

QY 241 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 300
|
Db 1573 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 1632

QY 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 360
|
Db 1633 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 1692

QY 361 ACGT 364
|
Db 1693 ACGT 1696

RESULT 14
US-09-602-877A-100
; Sequence 100, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602,877A
; CURRENT FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-602-877A-100

Query Match 100.0%; Score 364; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 3.6e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
|
Db 1333 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1392

QY 61 CTTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCGCCCTCACCGGGTTCACTTTCTC 120
|
Db 1393 CTTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCGCCCTCACCGGGTTCACTTTCTC 1452

QY 121 AGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGT 180
|
Db 1453 AGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGT 1512

QY 181 CTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 240
|
Db 1513 CTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 1572

QY 241 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 300
|
Db 1573 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 1632

QY 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 360
|
Db 1633 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 1692

QY 361 ACGT 364
|
Db 1693 ACGT 1696

Search completed: June 16, 2005, 04:10:27
Job time : 70.3451 secs

QY 181 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 240
|
Db 1513 CCTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 1572

QY 241 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 300
|
Db 1573 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 1632

QY 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 360
|
Db 1633 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 1692

QY 361 ACGT 364
|
Db 1693 ACGT 1696

RESULT 15
US-09-232-149A-110
; Sequence 110, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110

Query Match 100.0%; Score 364; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 3.6e-90;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
|
Db 1333 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1392

QY 61 CTTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCGCCCTCACCGGGTTCACTTTCTC 120
|
Db 1393 CTTGTCCACAGTGTGGCGGTGGTACAGCTTACAGCGCCCTCACCGGGTTCACTTTCTC 1452

QY 121 AGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGT 180
|
Db 1453 AGCCCTGCAGATCTCTGCCCTACACACTGGCCCTCCCTCTACACCGGGAGAGCAGGTGT 1512

QY 181 CTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 240
|
Db 1513 CTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACGCTGATGACACAG 1572

QY 241 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 300
|
Db 1573 CTTCTGCCAGCCCTTAAGCCTGGAGCTCCCTTAATGACACGCTGGGTGCTGGAGG 1632

QY 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 360
|
Db 1633 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 1692

QY 361 ACGT 364
|
Db 1693 ACGT 1696

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2005, 03:52:53 ; Search time 263.949 Seconds
(without alignments)
8560.543 Million cell updates/sec

Title: US-09-605-783A-110_COPY_1333_1696

Perfect score: 364

Sequence: 1 cactcgagcagtctattgg.....cctgtgatgtctccgtacgt 364

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 6054689 seqs, 3103772919 residues

Total number of hits satisfying chosen parameters: 12109378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
- 17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:*
- 18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:*
- 19: /cgn2_6/ptodata/2/pubpna/US10G_PUBCOMB.seq:*
- 20: /cgn2_6/ptodata/2/pubpna/US10H_PUBCOMB.seq:*
- 21: /cgn2_6/ptodata/2/pubpna/US10I_PUBCOMB.seq:*
- 22: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 23: /cgn2_6/ptodata/2/pubpna/US11A_PUBCOMB.seq:*
- 24: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
- 25: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 26: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	364	100.0	741	16	US-10-144-678A-1026
2	364	100.0	741	16	Sequence 1026, Ap
3	364	100.0	918	16	US-10-294-025-1026
4	364	100.0	918	16	Sequence 1026, Ap
5	364	100.0	1065	13	US-10-144-678A-1027
6	364	100.0	1065	13	Sequence 1027, Ap
7	364	100.0	1065	16	US-10-012-896-1010
					Sequence 1010, Ap
					Sequence 1010, Ap
					Sequence 1010, Ap

8	364	100.0	1662	16	US-10-005-907-12	Sequence 12, Appl
9	364	100.0	1662	17	US-10-295-027-547	Sequence 547, App
10	364	100.0	1702	19	US-10-403-142-1	Sequence 1, Appli
11	364	100.0	2133	15	US-10-296-770-3	Sequence 3, Appli
12	364	100.0	2143	9	US-09-841-894-15	Sequence 15, Appl
13	364	100.0	2152	9	US-09-841-894-16	Sequence 16, Appl
14	364	100.0	2582	17	US-10-295-027-901	Sequence 901, App
15	364	100.0	2904	9	US-09-759-143-703	Sequence 703, App
16	364	100.0	2904	9	US-09-780-669-703	Sequence 703, App
17	364	100.0	2904	9	US-09-822-827-703	Sequence 703, App
18	364	100.0	2904	9	US-09-895-793-703	Sequence 703, App
19	364	100.0	2904	9	US-09-895-814-703	Sequence 703, App
20	364	100.0	2904	13	US-10-012-896-703	Sequence 703, App
21	364	100.0	2904	16	US-10-144-678A-703	Sequence 703, App
22	364	100.0	2904	16	US-10-294-025-703	Sequence 703, App
23	364	100.0	3320	9	US-09-838-785-1	Sequence 1, Appli
24	364	100.0	3332	21	US-10-936-626-21	Sequence 21, Appl
25	364	100.0	3332	21	US-10-938-061-21	Sequence 21, Appl
26	364	100.0	3410	9	US-09-745-288-100	Sequence 100, App
27	364	100.0	3410	9	US-09-759-143-110	Sequence 110, App
28	364	100.0	3410	9	US-09-780-669-110	Sequence 110, App
29	364	100.0	3410	9	US-09-030-606-110	Sequence 110, App
30	364	100.0	3410	9	US-09-822-827-110	Sequence 110, App
31	364	100.0	3410	9	US-09-115-453-110	Sequence 110, App
32	364	100.0	3410	9	US-09-232-880-110	Sequence 110, App
33	364	100.0	3410	9	US-09-895-793-110	Sequence 110, App
34	364	100.0	3410	9	US-09-895-814-110	Sequence 110, App
35	364	100.0	3410	13	US-10-012-896-110	Sequence 110, App
36	364	100.0	3410	14	US-10-010-940-110	Sequence 110, App
37	364	100.0	3410	16	US-10-144-678A-110	Sequence 110, App
38	364	100.0	3410	16	US-10-294-025-110	Sequence 110, App
39	364	100.0	3410	18	US-10-453-919-100	Sequence 100, App
40	364	100.0	3410	19	US-10-688-838-110	Sequence 110, App
41	364	100.0	4034	9	US-09-759-143-704	Sequence 704, App
42	364	100.0	4034	9	US-09-780-669-704	Sequence 704, App
43	364	100.0	4034	9	US-09-822-827-704	Sequence 704, App
44	364	100.0	4034	9	US-09-895-793-704	Sequence 704, App
45	364	100.0	4034	9	US-09-895-814-704	Sequence 704, App

ALIGNMENTS

RESULT 1

US-10-144-678A-1026
; Sequence 1026, Application US/10144678A
; Publication No. US20030157089A1

GENERAL INFORMATION:

- ; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

```
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C28
; CURRENT APPLICATION NUMBER: US/10/144,678A
; CURRENT FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 1033
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1026
; LENGTH: 741
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-144-678A-1026

Query Match 100.0%; Score 364; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 60
Db 129 CACTCGAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 188
QY 61 CTTGTCCCAACAGTGTGGCGTGTGACAGCTTTCAGCGGCCCTCACCGGGTTTCACCTTCTC 120
Db 189 CTTGTCCCAACAGTGTGGCGTGTGACAGCTTTCAGCGGCCCTCACCGGGTTTCACCTTCTC 248
QY 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGGAGAACAGGTGTT 180
Db 249 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGGAGAACAGGTGTT 308
QY 181 CTTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCCAG 240
Db 309 CTTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCCAG 368
QY 241 CTTCTGTCCAGGCCCTTAAGCCTGGAGCTCCCTTAATGGACACAGTGGGTGCTGGAGG 300
Db 369 CTTCTGTCCAGGCCCTTAAGCCTGGAGCTCCCTTAATGGACACAGTGGGTGCTGGAGG 428
QY 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 360
Db 429 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 488
QY 361 ACGT 364
Db 489 ACGT 492

RESULT 2
US-10-294-025-1026
; Sequence 1026, Application US/10294025
; Publication No. US20030185830A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Kalos, Michael D.
; APPLICANT: Stolk, John A.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriek
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C29
; CURRENT APPLICATION NUMBER: US/10/294,025
; CURRENT FILING DATE: 2002-11-12
; NUMBER OF SEQ ID NOS: 1038
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1026
; LENGTH: 741
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-294-025-1026

Query Match 100.0%; Score 364; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 60
Db 129 CACTCGAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 188
QY 61 CTTGTCCCAACAGTGTGGCGTGTGACAGCTTTCAGCGGCCCTCACCGGGTTTCACCTTCTC 120
Db 189 CTTGTCCCAACAGTGTGGCGTGTGACAGCTTTCAGCGGCCCTCACCGGGTTTCACCTTCTC 248
QY 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGGAGAACAGGTGTT 180
Db 249 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGGAGAACAGGTGTT 308
QY 181 CTTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCCAG 240
Db 309 CTTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCCAG 368
QY 241 CTTCTGTCCAGGCCCTTAAGCCTGGAGCTCCCTTAATGGACACAGTGGGTGCTGGAGG 300
Db 369 CTTCTGTCCAGGCCCTTAAGCCTGGAGCTCCCTTAATGGACACAGTGGGTGCTGGAGG 428
QY 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 360
Db 429 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 488
QY 361 ACGT 364
Db 489 ACGT 492

RESULT 3
US-10-144-678A-1027
; Sequence 1027, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darriek
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C28
; CURRENT APPLICATION NUMBER: US/10/144,678A
; CURRENT FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 1033
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1027
; LENGTH: 918
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-144-678A-1027

Query Match 100.0%; Score 364; DB 16; Length 918;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CACTCGAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 60
Db 129 CACTCGAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 188
QY 61 CTTGTCCCAACAGTGTGGCGTGTGACAGCTTTCAGCGGCCCTCACCGGGTTTCACCTTCTC 120
Db 189 CTTGTCCCAACAGTGTGGCGTGTGACAGCTTTCAGCGGCCCTCACCGGGTTTCACCTTCTC 248
QY 121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGGAGAACAGGTGTT 180
Db 249 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCAACCGGGAGAACAGGTGTT 308
QY 181 CTTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCCAG 240
Db 309 CTTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGGACAGCCTGATGACCCAG 368
QY 241 CTTCTGTCCAGGCCCTTAAGCCTGGAGCTCCCTTAATGGACACAGTGGGTGCTGGAGG 300
Db 369 CTTCTGTCCAGGCCCTTAAGCCTGGAGCTCCCTTAATGGACACAGTGGGTGCTGGAGG 428
QY 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 360
Db 429 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGGGGGCTCTGCTGTGATGTCTCCGT 488
QY 361 ACGT 364
Db 489 ACGT 492
```

	D _b	306	CATCTGAGCAGTCTATTGGCCAGTGTCGACGCTTTCCCTGTGGCTCCCGGTGCCCATG	365
	Q _y	61	CTGTGCCCCACAGTGTGGCCGTGTGACAGCTTCACGCGCCCTCACCCGGGTTCACCTTCTC	120
	D _b	366	CTGTGCCCCACAGTGTGGCCGTGTGACAGCTTCAGCGCCCTCACCCGGGTTCACCTTCTC	425
	Q _y	121	AGCCCTGCAGATCCTGCCCTACACTGGCCTCCCTCTACACCGGGAAGAAGCAGTGT	180
	D _b	426	AGCCCTGCAGATCCTGCCCTACACTGGCCTCCCTCTACACCGGGAAGAAGCAGTGT	485
	Q _y	181	CTGTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACCTGATGACCAG	240
	D _b	486	CTGTGCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACCTGATGACCAG	545
	Q _y	241	CTTCTCTGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCTTAATGGACA CTGGGTGCTGGAGG	300
	D _b	546	CTTCTCTGCCAGGCCCTTAAGCTTGGAGCTCCCTTCCTTAATGGACA CACTGGGTGCTGGAGG	605
	Q _y	301	CAGTGGCCTGTCTCCCACTCCACCCGCGCTCTGCGGGGCGCTCTGCCGTGATGTCCTCCGT	360
	D _b	606	CAGTGGCCTGTCTCCCACTCCACCCGCGCTCTGCGGGGCGCTCTGCCGTGATGTCCTCCGT	665
	Q _y	361	ACGT	364
	D _b	666	ACGT	669

```

RESULT 4
US-10-294-025-1027
; Sequence 1027, Application US/10294025
; Publication No. US20030185830A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Kalos, Michael D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C29
; CURRENT APPLICATION NUMBER: US/10/294,025
; CURRENT FILING DATE: 2002-11-12
; NUMBER OF SEQ ID NOS: 1038
; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 1027
; LENGTH: 918
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-294-025-1027

```

Qy	301	CAGTGGCGCTGCTCCACACTCCACCCGGCGCTCTGCGGGGGCCTCTGCCCTGTGATGTCTCCGT	360
Db	606	CAGTGGCGCTGCTCCACACTCCACCCGGCGCTCTGCGGGGGCCTCTGCCCTGTGATGTCTCCGT	665
Qy	361	ACGT	364
Db	666	ACGT	669
RESULT 5			
US-10-012-896-1010			
; Sequence 1010, Application US/10012896			
; Publication No. US20020183251A1			
; GENERAL INFORMATION:			
; APPLICANT: Xu, Jiangchun			
; APPLICANT: Dillon, Davin C.			
; APPLICANT: Mitcham, Jennifer L.			
; APPLICANT: Harlocker, Susan L.			
; APPLICANT: Jiang, Yugu			
; APPLICANT: Kalos, Michael D.			
; APPLICANT: Retter, Marc W.			
; APPLICANT: Stolk, John A.			
; APPLICANT: Day, Craig H.			
; APPLICANT: Vedvick, Thomas S.			
; APPLICANT: Carter, Darrick			
; APPLICANT: Li, Samuel X.			
; APPLICANT: Wang, Aijun			
; APPLICANT: Skeiky, Yasir A.W.			
; APPLICANT: Hepler, William T.			
; APPLICANT: Henderson, Robert A.			
; APPLICANT: Rural, John			
; APPLICANT: McNeill, Patricia D.			
; APPLICANT: Houghton, Raymond L.			
; APPLICANT: Vinals de Bassols, Carlota			
; APPLICANT: Foy, Teresa			
; APPLICANT: Fanger, Gary R.			
; APPLICANT: Wantanabe, Yoshihiro			
; APPLICANT: Meagher, Madeleine Joy			
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND			
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER			
; FILE REFERENCE: 210121.427C27			
; CURRENT APPLICATION NUMBER: US/10/012.896			
; CURRENT FILING DATE: 2001-12-10			
; NUMBER OF SEQ ID NOS: 1011			
; SOFTWARE: FastSeq for Windows Version 3.0			
; SEQ ID NO 1010			
; LENGTH: 1065			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-10-012-896-1010			

	Qy	1	CTACTCGAGCAGTCTATTATTTGGCCAGGTGTGGCAGCTTTCCCTGTGGCTGCOCGGTGCCACATG	60
Db	306	CACTCGAGCAGTCTATTATTTGGCCAGGTGTGGCAGCTTTCCCTGTGGCTGCOCGGTGCCACATG <td>365</td>	365	
Qy	61	CTGTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTCACCGGGTTCACCTTCTTC	120	
Db	366	CTGTGCCACAGTGTGGCGGTGGTGACAGCTTTCAGCCGCCCTCACCGGGTTCACCTTCTTC	425	
Qy	121	AGCCCTGCGAGATCTTGCCCTTACACACTGGCCTCCCTTACCAACGGGAGAAAGCAGGTGTT	180	
Db	426	AGCCCTGCGAGATCTTGCCCTTACACACTGGCCTCCCTTACCAACGGGAGAAAGCAGGTGTT	485	
Qy	181	CTTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACCTGATGACCAG	240	
Db	486	CTTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACACCTGATGACCAG	545	
Qy	241	CTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACA	300	
Db	546	CTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTTAATGGACA	605	

Query Match	100.0%;	Score 364;	DB 13;	Length 1065;																										
Best Local Similarity	100.0%;	Pred. No. 1.8e-98;																												
Matches 364;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;																										
Qy	1	CAC	TG	CAG	CAG	TCT	AT	TT	TG	CC	CAG	TGG	CAG	CT	TT	CC	CT	TG	TG	CT	GC	TG	CG	TG	CC	AC	AT	G	60	
Db	504	CAC	TG	AG	CAG	TCT	AT	TT	TG	CC	CAG	TGG	CAG	CT	TT	CC	CT	TG	TG	CT	GC	TG	CG	TG	CC	AC	AT	G	563	
Qy	61	CCT	GT	CCC	CAG	TGT	GT	G	CG	TG	TG	AG	CAG	CT	T	CAG	CC	CG	CC	CT	C	AC	CG	GT	T	CAC	CT	T	C	120
Db	564	CCT	GT	CCC	CAG	TGT	GT	G	CG	TG	TG	AG	CAG	CT	T	CAG	CC	CG	CC	CT	C	AC	CG	GT	T	CAC	CT	T	C	623
Qy	121	AG	CC	TG	CAG	AT	CCT	TG	CC	CT	TAC	AC	TG	GC	CT	CC	CT	TAC	AC	CG	GG	AG	CAG	CG	TG	TT				180
Db	624	AG	CC	TG	CAG	AT	CCT	TG	CC	CT	TAC	AC	TG	GC	CT	CC	CT	TAC	AC	CG	GG	AG	CAG	CG	TG	TT				683
Qy	181	CCT	GT	CCC	CA	AA	TAC	CG	AG	GG	GA	CAC	TG	GAG	TG	CT	TAG	CAG	T	GAG	GA	CAG	CC	TG	AT	G	AC	CC	A	240
Db	684	CCT	GT	CCC	CA	AA	TAC	CG	AG	GG	GA	CAC	TG	GAG	TG	CT	TAG	CAG	T	GAG	GA	CAG	CC	TG	AT	G	AC	CC	A	743
Qy	241	CT	T	CCT	GT	CC	CA	AG	GG	CC	CT	TA	AG	CC	TG	AG	CT	CC	CT	T	CC	CT	TA	AG	GG	GA	CC	CT	G	300

Db 744 CTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGACACAGTGGGTGCTGGAGG 803
Qy 301 CAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 360
Db 804 CAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 863
Qy 361 ACGT 364
Db 864 ACGT 867

RESULT 6

US-10-144-678A-1010
; Sequence 1010, Application US/10144678A
; Publication No. US20030157089A1

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqiu

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel X.

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Hepler, William T.

; APPLICANT: Hural, John

; APPLICANT: McNeill, Patricia D.

; APPLICANT: Houghton, Raymond L.

; APPLICANT: Vinals y de Bassols, Carlota

; APPLICANT: Foy, Teresa M.

; APPLICANT: Watanabe, Yoshihiro

; APPLICANT: Deng, Ta

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C28

; CURRENT FILING DATE: 2002-08-12

; NUMBER OF SEQ ID NOS: 1033

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1010

; LENGTH: 1065

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-144-678A-1010

Query Match 100.0%; Score 364; DB 16; Length 1065;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db 504 CACTGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 563
Qy 61 CTTGTCACAGTGTGGCGGTGGTGAAGCTTTACGCGCCCTCACCGGGTTACCTTCTC 120
Db 564 CTTGTCACAGTGTGGCGGTGGTGAAGCTTTACGCGCCCTCACCGGGTTACCTTCTC 623
Qy 121 AGCCCTGCAGATCTGCGCTACACACTGGCCTCCCTCTACCAACCGGGAGACAGGTGT 180
Db 624 AGCCCTGCAGATCTGCGCTACACACTGGCCTCCCTCTACCAACCGGGAGACAGGTGT 683
Qy 181 CTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAGCCTGATGACCAG 240
Db 684 CTGCCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTAGGACAGCCTGATGACCAG 743
Qy 241 CTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGAACAGTGGGTGCTGGAGG 300
Db 744 CTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGAACAGTGGGTGCTGGAGG 803
Qy 301 CAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 360
Db 804 CAGTGGCTGCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 863
Qy 361 ACGT 364
Db 864 ACGT 867

RESULT 8

US-10-005-907-12
; Sequence 12, Application US/10005907
; Publication No. US20030166881A1
; GENERAL INFORMATION:
; APPLICANT: Union Chimique Belge, S.A.

```
; APPLICANT: No. US20030166881Aalka, Karl
; APPLICANT: Pirozzi, Gregory
; APPLICANT: Einstein, Richard
; TITLE OF INVENTION: NOVEL GENES ASSOCIATED WITH ALLERGIC HYPERSENSITIVITY AND MAST CE
; TITLE OF INVENTION: ACTIVATION
; FILE REFERENCE: 053529-5005
; CURRENT APPLICATION NUMBER: US/10/005,907
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1662)
; OTHER INFORMATION:
US-10-005-907-12

Query Match      100.0%; Score 364; DB 16; Length 1662;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGAGCTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 60
Db 1050 CACTCGAGAGCTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 1109

Qy 61 CTTGTCCACAGTGTGGCGGTGGTACAGCTTCAGCGGCCCTCACCAGGAGAGCAGGTGT 120
Db 1110 CTTGTCCACAGTGTGGCGGTGGTACAGCTTCAGCGGCCCTCACCAGGAGAGCAGGTGT 1169

Qy 121 AGCCCTGCAGATCTCTCCCTACACACTGGCCCTCCCTCTACACACCGGAGAGCAGGTGT 180
Db 1170 AGCCCTGCAGATCTCTCCCTACACACTGGCCCTCCCTCTACACACCGGAGAGCAGGTGT 1229

Qy 181 CCTGCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGGAGACAGCCTGTATGACACAG 240
Db 1230 CCTGCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGGAGACAGCCTGTATGACACAG 1289

Qy 241 CTTCTGCGAGGCCCTAAGCTTGGAGCTCCCTTCCCTTAATGGACAGTGGGTGCTGGAGG 300
Db 1290 CTTCTGCGAGGCCCTAAGCTTGGAGCTCCCTTCCCTTAATGGACAGTGGGTGCTGGAGG 1349

Qy 301 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGGGGGCGCTCTGCTGTGATGTCTCCGT 360
Db 1350 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGGGGGCGCTCTGCTGTGATGTCTCCGT 1409

Qy 361 ACGT 364
Db 1410 ACGT 1413

RESULT 9
US-10-295-027-547
; Sequence 547, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
```

```
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 547
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-547

Query Match      100.0%; Score 364; DB 17; Length 1662;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGAGCTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 60
Db 1050 CACTCGAGAGCTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 1109

Qy 61 CTTGTCCACAGTGTGGCGGTGGTACAGCTTCAGCGGCCCTCACCAGGAGAGCAGGTGTCTC 120
Db 1110 CTTGTCCACAGTGTGGCGGTGGTACAGCTTCAGCGGCCCTCACCAGGAGAGCAGGTGTCTC 1169

Qy 121 AGCCCTGCAGATCTCTCCCTACACACTGGCCCTCCCTCTACACACCGGAGAGCAGGTGT 180
Db 1170 AGCCCTGCAGATCTCTCCCTACACACTGGCCCTCCCTCTACACACCGGAGAGCAGGTGT 1229

Qy 181 CCTGCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGGAGACAGCCTGTATGACACAG 240
Db 1230 CCTGCCCAATACCGAGGGGACACTGGAGGTGTAGCAGTGGAGACAGCCTGTATGACACAG 1289

Qy 241 CTTCTGCGAGGCCCTAAGCTTGGAGCTCCCTTCCCTTAATGGACAGTGGGTGCTGGAGG 300
Db 1290 CTTCTGCGAGGCCCTAAGCTTGGAGCTCCCTTCCCTTAATGGACAGTGGGTGCTGGAGG 1349

Qy 301 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGGGGGCGCTCTGCTGTGATGTCTCCGT 360
Db 1350 CAGTGGCTGTCTCCACCTCCACCCGCGCTCTGGGGGCGCTCTGCTGTGATGTCTCCGT 1409

Qy 361 ACGT 364
Db 1410 ACGT 1413

RESULT 10
US-10-403-142-1
; Sequence 1, Application US/10403142
; Publication No. US20040162236A1
; GENERAL INFORMATION:
; APPLICANT: Alsebrook et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-573A
; CURRENT APPLICATION NUMBER: US/10/403,142
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 08/969106
```

```

; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 09/544511
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 60/369065
; PRIOR FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: 09/604286
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: 09/651200
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 09/662783
; PRIOR FILING DATE: 2000-09-12
; PRIOR APPLICATION NUMBER: 09/688598
; PRIOR FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: 09/894159
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 09/918779
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 09/964956
; PRIOR FILING DATE: 2001-09-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 242
; SOFTWARE: CuratSeqList version 0.1
; SEQ ID NO 1
; LENGTH: 1702
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (21)..(1679)
; US-10-403-142-1

```

```

Query Match      100.0%; Score 364; DB 19; Length 1702;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db      1070 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1129

QY      61  CCTGTCCCAAGTGTGGCGTGTGACAGTTCAGCCGCCCTCACC CGGGTTCACCTTCTC 120
Db      1130 CCTGTCCCAAGTGTGGCGTGTGACAGTTCAGCCGCCCTCACC CGGGTTCACCTTCTC 1189

QY      121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACCA CCGGGAGAACAGTGT 180
Db      1190 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTCTACCA CCGGGAGAACAGTGT 1249

QY      181 CTGTCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 240
Db      1250 CTGTCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1309

QY      241 CTTCTGCCAGGCCCTTAAGCCTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 300
Db      1310 CTTCTGCCAGGCCCTTAAGCCTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 1369

QY      301 CAGTGGCTGTGCCACCTCCACCCCGCTCTGCGGGGCTCTGCCCTGTGATGTCTCCGT 360
Db      1370 CAGTGGCTGTGCCACCTCCACCCCGCTCTGCGGGGCTCTGCCCTGTGATGTCTCCGT 1429

QY      361 ACGT 364
Db      1430 ACGT 1433

```

```

RESULT 11
US-10-296-770-3
; Sequence 3, Application US/10296770
; Publication No. US20030104570A1
; GENERAL INFORMATION:
; APPLICANT: Cabezón Silva, Teresa Elisea Virginia
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; TITLE OF INVENTION: Triple Fusion Proteins Comprising
; TITLE OF INVENTION: Ubiquitin Fused Between Thioredoxin and a Polypeptide of

```

```

; TITLE OF INVENTION: Interest
; FILE REFERENCE: B45221
; CURRENT APPLICATION NUMBER: US/10/296,770
; CURRENT FILING DATE: 2002-12-13
; PRIOR APPLICATION NUMBER: PCT/EP01/06952
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: GB 0015619.0
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: GB 0026484.6
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2133
; TYPE: DNA
; ORGANISM: Chimaeric (E. coli - human)
; US-10-296-770-3

Query Match      100.0%; Score 364; DB 15; Length 2133;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 60
Db      1497 CACTCGAGCAGTCTATTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCGGTGCCACATG 1556

QY      61  CTTGTCCCAAGTGTGGCGTGTGACAGTTCAGCCGCCCTCACC CGGGTTCACCTTCTC 120
Db      1557 CTTGTCCCAAGTGTGGCGTGTGACAGTTCAGCCGCCCTCACC CGGGTTCACCTTCTC 1616

QY      121 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCA CCGGGAGAACAGTGT 180
Db      1617 AGCCCTGCAGATCCTGCCCTACACACTGGCCCTCCCTTACCA CCGGGAGAACAGTGT 1676

QY      181 CTGTCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 240
Db      1677 CTGTCCCAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1736

QY      241 CTTCTGCCAGGCCCTTAAGCCTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 300
Db      1737 CTTCTGCCAGGCCCTTAAGCCTGAGCTCCCTTCCCTTAATGGACACGTGGGTGCTGGAGG 1796

QY      301 CAGTGGCTGTGCCACCTCCACCCCGCTCTGCGGGGCTCTGCCCTGTGATGTCTCCGT 360
Db      1797 CAGTGGCTGTGCCACCTCCACCCCGCTCTGCGGGGCTCTGCCCTGTGATGTCTCCGT 1856

QY      361 ACGT 364
Db      1857 ACGT 1860

```

```

RESULT 12
US-09-841-894-15
; Sequence 15, Application US/09841894
; Publication No. US20020086301A1
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; COHEN, MAURICE
; COLPLITS, TRACEY L.
; FRIEDMAN, PAULA N.
; GORDON, JULIAN
; GRANADOS, EDWARD N.
; HODGES, STEVEN C.
; KLASS, MICHAEL R.
; KRATOCHVIL, JON D.
; ROBERTS-RAPP, LISA
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park

```


STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/841,894
FILING DATE: 25-Apr-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION NUMBER: 09/071,710
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 2143 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-841-894-15

Query Match 100.0%; Score 364; DB 9; Length 2143;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 60
Db 149 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 208
Qy 61 CTTGTCACACAGTGTGGCGGTGGTGACAGCTTACAGCGCCCTCACCGGGTTACCTTCTC 120
Db 209 CTTGTCACACAGTGTGGCGGTGGTGACAGCTTACAGCGCCCTCACCGGGTTACCTTCTC 268
Qy 121 AGCCCTGCAGATCTGCCCTACACACTGSCCTCCCTCTACCAACCGGGAGACAGGTGT 180
Db 269 AGCCCTGCAGATCTGCCCTACACACTGSCCTCCCTCTACCAACCGGGAGACAGGTGT 328
Qy 181 CTTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCTGATGACCCAG 240
Db 329 CTTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCTGATGACCCAG 388
Qy 241 CTTGTCACAGCCCTTAAGCTTGGAGTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGG 300
Db 389 CTTGTCACAGCCCTTAAGCTTGGAGTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGG 448
Qy 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCCTCGT 360
Db 449 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCCTCGT 508
Qy 361 ACGT 364
Db 509 ACGT 512

RESULT 13

US-09-841-894-16
Sequence 16, Application US/09841894
Publication No. US2002086301A1
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.

FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE PROSTATE
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/841,894
FILING DATE: 25-Apr-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/071,710
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-841-894-16

Query Match 100.0%; Score 364; DB 9; Length 2152;
Best Local Similarity 100.0%; Pred. No. 1.8e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 60
Db 157 CACTCGAGCAGTCTATTTGGCCAGTGTGGCAGCTTTCCCTGTGGCTGCCGGTGCCACATG 216
Qy 61 CTTGTCACACAGTGTGGCGGTGGTGACAGCTTACAGCGCCCTCACCGGGTTACCTTCTC 120
Db 217 CTTGTCACACAGTGTGGCGGTGGTGACAGCTTACAGCGCCCTCACCGGGTTACCTTCTC 276
Qy 121 AGCCCTGCAGATCTGCCCTACACACTGSCCTCCCTCTACCAACCGGGAGACAGGTGT 180
Db 277 AGCCCTGCAGATCTGCCCTACACACTGSCCTCCCTCTACCAACCGGGAGACAGGTGT 336
Qy 181 CTTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCTGATGACCCAG 240
Db 337 CTTGCCCAATAACCGAGGGGACACTGGAGGTGCTAGCAGTGAGGACAGCTGATGACCCAG 396
Qy 241 CTTGTCACAGCCCTTAAGCTTGGAGTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGG 300
Db 397 CTTGTCACAGCCCTTAAGCTTGGAGTCCCTTCCCTTAATGACACAGTGGGTGCTGGAGG 456
Qy 301 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCCTCGT 360
Db 457 CAGTGGCTGTCTCCACCTCCACCGCGCTCTGCGGGGCTCTGCTGTGATGTCCTCGT 516

```
QY      361 ACGT 364
Db      517 ACGT 520

RESULT 14
US-10-295-027-901
; Sequence 901, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 901
; LENGTH: 2582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(2582)
; OTHER INFORMATION: n = g, a, c or t
US-10-295-027-901

Query Match      100.0%; Score 364; DB 17; Length 2582;
Best Local Similarity 100.0%; Pred. No. 1.9e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1      1 CACTCCAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTCGCCACATG 60
Db      1359 CACTCAGCAGTCTATTTCGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTCGCCACATG 1418

QY      61      1 CCTGTCCCCAGTGTGGCGGTGTGACAGCTTTCAGCGGCCCTCACCAGGTTTCCCTTCTC 120
Db      1419 CCTGTCCCCAGTGTGGCGGTGTGACAGCTTTCAGCGGCCCTCACCAGGTTTCCCTTCTC 1478

QY      121     1 AGCCCTGCAGATCCTGCCCTACACACTGGGCTCCCTCTACCAACCGGGAGACAGGTGTT 180
Db      121     1 AGCCCTGCAGATCCTGCCCTACACACTGGGCTCCCTCTACCAACCGGGAGACAGGTGTT 180

QY      181     1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 240
Db      181     1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 240

QY      1085    1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1144
Db      1085    1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1144

Db      1479 AGCCCTGCAGATCCTGCCCTACACACTGGGCTCCCTCTACCAACCGGGAGACAGGTGTT 1538
QY      181     1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 240
Db      1539 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1598

QY      241     1 CTTCTCTCCAGGCCCTAAGCCTTGAGCTCCCTTCCCTAATGGAACAACGTGGGTGCTGGAGG 300
Db      1599 CTTCTCTCCAGGCCCTAAGCCTTGAGCTCCCTTCCCTAATGGAACAACGTGGGTGCTGGAGG 1658

QY      301     1 CAGTGGCCTGCTCCCACTCCACCGCGCTCTGGGGGCGCTCTGCTGTGATGTCTCCGT 360
Db      1659 CAGTGGCCTGCTCCCACTCCACCGCGCTCTGGGGGCGCTCTGCTGTGATGTCTCCGT 1718

QY      361 ACGT 364
Db      1719 ACGT 1722

RESULT 15
US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. US20020022248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

Query Match      100.0%; Score 364; DB 9; Length 2904;
Best Local Similarity 100.0%; Pred. No. 1.9e-98;
Matches 364; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1      1 CACTCGACGAGTCTATTTCGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTCGCCACATG 60
Db      905     1 CACTCGACGAGTCTATTTCGCCAGTGTGGCAGCTTTCCTGTGGCTGCGGTCGCCACATG 964

QY      61      1 CTTGTCCCAACAGTGTGGCGGTGTGACAGCTTTCAGCGGCCCTCACCAGGTTTCCCTTCTC 120
Db      965     1 CTTGTCCCAACAGTGTGGCGGTGTGACAGCTTTCAGCGGCCCTCACCAGGTTTCCCTTCTC 1024

QY      121     1 AGCCCTGCAGATCCTGCCCTACACACTGGGCTCCCTCTACCAACCGGGAGACAGGTGTT 180
Db      1025 AGCCCTGCAGATCCTGCCCTACACACTGGGCTCCCTCTACCAACCGGGAGACAGGTGTT 1084

QY      181     1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 240
Db      181     1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 240

QY      1085    1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1144
Db      1085    1 CCTGCCCCAAATACCGAGGGGACACTGGAGGTGCTAGCAGTGGAGCAGCCTGATGACCAG 1144
```

```
Qy 241 CTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGG 300
    |||||
Db 1145 CTTCTGCGCAGGCCCTTAAGCCTGGAGCTCCCTTCCCTAATGGACACGTGGGTGCTGGAGG 1204
    |||||

Qy 301 CAGTGGCCTGCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 360
    |||||
Db 1205 CAGTGGCCTGCTCCACCTCCACCCGCGCTCTGCGGGGCTCTGCTGTGATGTCTCCGT 1264
    |||||

Qy 361 ACGT 364
    ||||
Db 1265 ACGT 1268
```

Search completed: June 16, 2005, 10:18:58
Job time : 263.949 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 15, 2005, 21:55:13 ; Search time 72.9057 seconds
(without alignments)
628.425 Million cell updates/sec

Title: US-09-605-783A-110_COPY_1390_1417

Perfect score: 28

Sequence: 1 atgcctgtccacagtggtggtg 28

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/5A COMB.seq:*

2: /cgn2_6/ptodata/1/ina/5B COMB.seq:*

3: /cgn2_6/ptodata/1/ina/6A COMB.seq:*

4: /cgn2_6/ptodata/1/ina/6B COMB.seq:*

5: /cgn2_6/ptodata/1/ina/PCRTUS_COMB.seq:*

6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	28	100.0	258	3	US-09-071-710-1
2	28	100.0	258	3	US-09-525-397-1
3	28	100.0	789	3	US-09-020-956-10
4	28	100.0	789	3	US-09-030-607-10
5	28	100.0	789	3	US-09-439-313-10
6	28	100.0	789	3	US-09-352-616A-10
7	28	100.0	789	3	US-09-232-149A-10
8	28	100.0	789	4	US-09-159-812-10
9	28	100.0	789	4	US-09-636-215-10
10	28	100.0	789	4	US-09-685-166A-10
11	28	100.0	789	4	US-09-115-453-10
12	28	100.0	789	4	US-09-688-489-10
13	28	100.0	789	4	US-09-679-426-10
14	28	100.0	789	4	US-09-759-143-10
15	28	100.0	789	4	US-09-651-236-10
16	28	100.0	2143	3	US-09-071-710-15
17	28	100.0	2143	3	US-09-525-397-15
18	28	100.0	2152	3	US-09-071-710-16
19	28	100.0	2152	3	US-09-525-397-16
20	28	100.0	2904	4	US-09-636-215-703
21	28	100.0	2904	4	US-09-685-166A-703
22	28	100.0	2904	4	US-09-679-426-703
23	28	100.0	2904	4	US-09-759-143-703
24	28	100.0	2904	4	US-09-651-236-703
25	28	100.0	3410	3	US-09-020-956-110
26	28	100.0	3410	3	US-09-030-607-110
27	28	100.0	3410	3	US-09-439-313-110

28	28	100.0	3410	3	US-09-352-616A-110	Sequence 110, Appl
29	28	100.0	3410	3	US-09-602-877A-100	Sequence 100, Appl
30	28	100.0	3410	3	US-09-232-149A-110	Sequence 110, Appl
31	28	100.0	3410	4	US-09-159-812-110	Sequence 110, Appl
32	28	100.0	3410	4	US-09-636-215-110	Sequence 110, Appl
33	28	100.0	3410	4	US-09-685-166A-110	Sequence 110, Appl
34	28	100.0	3410	4	US-09-115-453-110	Sequence 110, Appl
35	28	100.0	3410	4	US-09-688-489-110	Sequence 110, Appl
36	28	100.0	3410	4	US-09-679-426-110	Sequence 110, Appl
37	28	100.0	3410	4	US-09-759-143-110	Sequence 110, Appl
38	28	100.0	3410	4	US-09-651-236-110	Sequence 110, Appl
39	28	100.0	4034	4	US-09-636-215-704	Sequence 704, Appl
40	28	100.0	4034	4	US-09-685-166A-704	Sequence 704, Appl
41	28	100.0	4034	4	US-09-679-426-704	Sequence 704, Appl
42	28	100.0	4034	4	US-09-759-143-704	Sequence 704, Appl
43	28	100.0	4034	4	US-09-651-236-704	Sequence 704, Appl
44	28	100.0	4894	4	US-09-636-215-702	Sequence 702, Appl
45	28	100.0	4894	4	US-09-685-166A-702	Sequence 702, Appl
46	28	100.0	4894	4	US-09-679-426-702	Sequence 702, Appl
47	28	100.0	4894	4	US-09-759-143-702	Sequence 702, Appl
48	28	100.0	4894	4	US-09-651-236-702	Sequence 702, Appl
49	28	100.0	6976	4	US-09-636-215-705	Sequence 705, Appl
50	28	100.0	6976	4	US-09-685-166A-705	Sequence 705, Appl
51	28	100.0	6976	4	US-09-679-426-705	Sequence 705, Appl
52	28	100.0	6976	4	US-09-759-143-705	Sequence 705, Appl
53	28	100.0	6976	4	US-09-651-236-705	Sequence 705, Appl
54	19.2	68.6	22773	4	US-09-990-613A-6	Sequence 6, Appli
55	19	67.9	330	4	US-09-513-999C-3246	Sequence 3246, Ap
56	19	67.9	1181	2	US-08-892-690-2	Sequence 2, Appli
57	19	67.9	253345	4	US-09-949-016-13656	Sequence 12656, A
58	19	67.9	253364	4	US-09-949-016-13639	Sequence 13639, A
59	18.8	67.1	200663	4	US-09-949-016-12569	Sequence 12569, A
60	18.8	67.1	203093	4	US-09-949-016-14445	Sequence 14445, A
61	18.6	66.4	162914	4	US-09-949-016-15578	Sequence 15578, A
62	18.6	66.4	246240	2	US-08-724-394A-20	Sequence 20, Appl
63	18.6	66.4	246240	2	US-08-724-394A-21	Sequence 21, Appl
64	18.6	66.4	246240	2	US-08-724-394A-22	Sequence 22, Appl
65	18.4	65.0	7386	4	US-09-949-016-13287	Sequence 13287, A
66	18.2	65.0	507	4	US-09-902-540-1085	Sequence 1085, Ap
67	18.2	65.0	14807	4	US-09-902-540-3309	Sequence 3309, Ap
68	18	64.3	786	4	US-09-949-016-1735	Sequence 1735, Ap
69	18	64.3	2396	4	US-09-949-016-1735	Sequence 1735, Ap
70	18	64.3	15351	4	US-09-902-540-1154	Sequence 1154, Ap
71	18	64.3	88906	4	US-09-949-016-17468	Sequence 17468, A
72	18	64.3	152481	4	US-09-949-016-12521	Sequence 12521, A
73	18	64.3	152798	4	US-09-949-016-12775	Sequence 12775, A
74	18	64.3	152822	4	US-09-949-016-17518	Sequence 17518, A
75	18	64.3	152822	4	US-09-949-016-17519	Sequence 17519, A
76	18	64.3	232024	4	US-09-949-016-13477	Sequence 13477, A
77	17.8	63.6	1320	4	US-09-902-540-4412	Sequence 4412, Ap
78	17.8	63.6	23677	4	US-09-902-540-1218	Sequence 1218, Ap
79	17.6	62.9	14084	4	US-09-949-016-13889	Sequence 13889, A
80	17.6	62.9	48471	4	US-09-949-016-16416	Sequence 16416, A
81	17.6	62.9	134987	4	US-09-949-016-15348	Sequence 15348, A
82	17.6	62.9	134987	4	US-09-949-016-15349	Sequence 15349, A
83	17.6	62.9	134987	4	US-09-949-016-15350	Sequence 15350, A
84	17.6	62.9	134987	4	US-09-949-016-15507	Sequence 15507, A
85	17.6	62.9	134987	4	US-09-949-016-15508	Sequence 15508, A
86	17.6	62.9	134987	4	US-09-949-016-15509	Sequence 15509, A
87	17.6	62.9	198942	4	US-09-949-016-13209	Sequence 13209, A
88	17.4	62.1	481	4	US-09-513-999C-4020	Sequence 4020, Ap
89	17.4	62.1	513	4	US-09-513-999C-4021	Sequence 4021, Ap
90	17.4	62.1	547	4	US-09-513-999C-4021	Sequence 12884, A
91	17.4	62.1	601	4	US-09-949-016-20704	Sequence 20704, A
92	17.4	62.1	601	4	US-09-949-016-44477	Sequence 44477, A
93	17.4	62.1	1137	1	US-08-695-355-2	Sequence 2, Appli
94	17.4	62.1	1137	3	US-09-063-869-2	Sequence 2, Appli
95	17.4	62.1	1514	4	US-08-381-433A-1	Sequence 1, Appli
96	17.4	62.1	1514	4	US-09-799-978-19	Sequence 19, Appli
97	17.4	62.1	1514	4	US-09-881-401-1	Sequence 1, Appli
98	17.4	62.1	1575	4	US-09-266-965-84	Sequence 84, Appli
99	17.4	62.1	1626	1	US-08-381-433A-3	Sequence 3, Appli
100	17.4	62.1	1626	4	US-09-799-978-17	Sequence 17, Appli

101 17.4 62.1 1626 4 US-09-881-401-3
c 102 17.4 62.1 2818 4 US-09-949-016-1262
103 17.4 62.1 2940 1 US-08-690-457-15
104 62.1 2940 2 US-08-628-187-15
105 17.4 62.1 4194 4 US-09-902-540-2099
c 106 17.4 62.1 4297 4 US-09-949-016-150
c 107 17.4 62.1 4902 4 US-09-902-540-5635
108 17.4 62.1 11002 4 US-09-949-016-17471
109 17.4 62.1 11002 4 US-09-949-016-17472
110 17.4 62.1 11002 4 US-09-949-016-17473
c 111 17.4 62.1 18034 4 US-09-266-965-75
112 17.4 62.1 25871 4 US-09-798-743-5
113 17.4 62.1 26850 4 US-10-327-189-41
114 17.4 62.1 29871 4 US-09-949-016-12180
115 17.4 62.1 29876 4 US-09-949-016-13800
c 116 17.4 62.1 34855 4 US-09-949-016-13004
117 17.4 62.1 44676 4 US-09-949-016-17511
118 17.4 62.1 49225 4 US-09-902-540-1269
c 119 17.4 62.1 56302 4 US-09-949-016-11892
120 17.4 62.1 254778 4 US-09-949-016-12417
c 121 17.2 61.4 519 4 US-09-902-540-5435
122 17.2 61.4 601 4 US-09-949-016-69701
123 17.2 61.4 601 4 US-09-949-016-69702
c 124 17.2 61.4 23218 4 US-09-949-016-11987
125 17.2 61.4 23219 4 US-09-949-016-13396
c 126 17.2 61.4 29433 4 US-09-949-016-15740
127 17.2 61.4 34953 4 US-09-902-540-1263
128 17.2 61.4 67479 4 US-09-949-016-11804
129 17.2 61.4 71119 4 US-09-949-016-13558
c 130 17.2 61.4 72455 4 US-09-949-016-13793
c 131 17.2 61.4 104475 4 US-09-949-016-12115
c 132 17.2 61.4 111282 3 US-09-754-250-3
133 17 60.7 28 3 US-09-203-716-7
134 17 60.7 28 3 US-09-684-254-7
135 17 60.7 28 4 US-09-409-926-7
136 17 60.7 231 4 US-09-621-976-14380
c 137 17 60.7 292 4 US-09-513-999C-29569
c 138 17 60.7 356 4 US-09-621-976-14111
c 139 17 60.7 601 4 US-09-949-016-2291
140 17 60.7 601 4 US-09-949-016-50909
c 141 17 60.7 601 4 US-09-949-016-57455
c 142 17 60.7 601 4 US-09-949-016-179374
c 143 17 60.7 601 4 US-09-949-016-179375
c 144 17 60.7 1629 4 US-09-799-451-699
c 145 17 60.7 1813 4 US-09-270-767-3091
c 146 17 60.7 1813 4 US-09-270-767-18373
c 147 17 60.7 2612 4 US-09-495-050A-214
c 148 17 60.7 4203 2 US-08-866-757-1
c 149 17 60.7 4203 3 US-09-153-593-1
c 150 17 60.7 4496 4 US-09-949-016-2348

ALIGNMENTS

RESULT 1
US-09-071-710-1
; Sequence 1, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL

; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083 US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 258 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-071-710-1

Query Match 100.0%; Score 28; DB 3; Length 258;
Best Local Similarity 100.0%; Pred. No. 0.0047;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCGCGGTG 28
|||
Db 214 ATGCTGTCCACAGTGTGCGCGGTG 241
|||

RESULT 2
US-09-525-397-1
; Sequence 1, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500

```
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/525.397
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071.710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 258 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-525-397-1

Query Match      100.0%; Score 28; DB 3; Length 258;
Best Local Similarity 100.0%; Pred. No. 0.0047;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGCCGTGGTG 28
Db      214 ATGCCTGTCCACAGTGTGCCGTGGTG 241

RESULT 3
US-09-020-956-10
; Sequence 10, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020.956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
```

```
;
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
;
US-09-020-956-10

Query Match      100.0%; Score 28; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGCCGTGGTG 28
Db      50 ATGCCTGTCCACAGTGTGCCGTGGTG 77

RESULT 4
US-09-030-607-10
; Sequence 10, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030.607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
;
US-09-030-607-10

Query Match      100.0%; Score 28; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGCCGTGGTG 28
Db      50 ATGCCTGTCCACAGTGTGCCGTGGTG 77

RESULT 5
US-09-439-313-10
; Sequence 10, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020.956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
```



```
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-439-313-10

Query Match      100.0%; Score 28; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
Db 50 ATGCTGTCCACAGTGTGGCGTGGTG 77

RESULT 6
US-09-352-616A-10
; Sequence 10, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqui
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; TITLE OF INVENTION: OF PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-352-616A-10

Query Match      100.0%; Score 28; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
Db 50 ATGCTGTCCACAGTGTGGCGTGGTG 77

RESULT 7
US-09-232-149A-10
; Sequence 10, Application US/09232149A
; Patent No. 6465611
```

```
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-232-149A-10

Query Match      100.0%; Score 28; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
Db 50 ATGCTGTCCACAGTGTGGCGTGGTG 77

RESULT 8
US-09-159-812-10
; Sequence 10, Application US/09159812A
; Patent No. 6613872
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun C.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C5
; CURRENT APPLICATION NUMBER: US/09/159,812A
; CURRENT FILING DATE: 1998-09-23
; NUMBER OF SEQ ID NOS: 306
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-159-812-10

Query Match      100.0%; Score 28; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
Db 50 ATGCTGTCCACAGTGTGGCGTGGTG 77

RESULT 9
US-09-636-215-10
; Sequence 10, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
```

```
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636.215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-636-215-10

Query Match      100.0%; Score 28; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGCCCGTGGTG 28
      |||||||
Db      50 ATGCCTGTCCACAGTGTGCCCGTGGTG 77

RESULT 10
US-09-685-166A-10
; Sequence 10, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685.166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-685-166A-10

Query Match      100.0%; Score 28; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGCCCGTGGTG 28
      |||||||
Db      50 ATGCCTGTCCACAGTGTGCCCGTGGTG 77

RESULT 11
US-09-115-453-10
; Sequence 10, Application US/09115453B
; Patent No. 6657056
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115.453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-115-453-10

Query Match      100.0%; Score 28; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGCCCGTGGTG 28
      |||||||
Db      50 ATGCCTGTCCACAGTGTGCCCGTGGTG 77

RESULT 12
US-09-688-489-10
; Sequence 10, Application US/09688489
; Patent No. 6664377
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427D2
; CURRENT APPLICATION NUMBER: US/09/688.489
; CURRENT FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-688-489-10

Query Match      100.0%; Score 28; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGTGGTG 28
|||||
Db 50 ATGCCTGTCCACAGTGTGGCGTGGTG 77

RESULT 13

US-09-679-426-10
; Sequence 10, Application US/09679426

; Patent No. 6759515

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqui

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.427C20

; CURRENT APPLICATION NUMBER: US/09/679,426

; CURRENT FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 895

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 10

; LENGTH: 789

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (1)...(789)

; OTHER INFORMATION: n = A,T,C or G

US-09-679-426-10

Query Match 100.0%; Score 28; DB 4; Length 789;

Best Local Similarity 100.0%; Pred. No. 0.0055;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGTGGTG 28
|||||
Db 50 ATGCCTGTCCACAGTGTGGCGTGGTG 77

RESULT 14

US-09-759-143-10

; Sequence 10, Application US/09759143

; Patent No. 6800746

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqui

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 10

; LENGTH: 789

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (1)...(789)

; OTHER INFORMATION: n = A,T,C or G

US-09-759-143-10

Query Match 100.0%; Score 28; DB 4; Length 789;

Best Local Similarity 100.0%; Pred. No. 0.0055;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGTGGTG 28
|||||
Db 50 ATGCCTGTCCACAGTGTGGCGTGGTG 77

RESULT 15

US-09-651-236-10

; Sequence 10, Application US/09651236

; Patent No. 6818751

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; APPLICANT: Mitcham, Jennifer L.

; APPLICANT: Harlocker, Susan L.

; APPLICANT: Jiang, Yuqui

; APPLICANT: Henderson, Robert A.

; APPLICANT: Kalos, Michael D.

; APPLICANT: Fanger, Gary R.

; APPLICANT: Retter, Marc W.

; APPLICANT: Stolk, John A.

; APPLICANT: Day, Craig H.

; APPLICANT: Vedvick, Thomas S.

; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel

; APPLICANT: Wang, Aijun

; APPLICANT: Skeiky, Yasir A.W.

; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER

; FILE REFERENCE: 210121.42718C18

; CURRENT APPLICATION NUMBER: US/09/651,236

; CURRENT FILING DATE: 2000-08-29

; NUMBER OF SEQ ID NOS: 865

; SOFTWARE: FastSEQ for Windows Version 3.0

; SEQ ID NO 10

; LENGTH: 789

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (1)...(789)

; OTHER INFORMATION: n = A,T,C or G

US-09-651-236-10

Query Match 100.0%; Score 28; DB 4; Length 789;

Best Local Similarity 100.0%; Pred. No. 0.0055;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACACAGTGTGGCCGTGGTG 28
|||
Db 50 ATGCCTGTCCACACAGTGTGGCCGTGGTG 77

RESULT 16
US-09-071-710-15
; Sequence 15, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41

RESULT 17
US-09-525-397-15
; Sequence 15, Application US/09525397
; Patent No. 6252047

```

/ GENERAL INFORMATION:
/ APPLICANT: BILLING-MEDEL, PATRICIA
/ APPLICANT: COHEN, MAURICE
/ APPLICANT: COLPITTS, TRACEY L.
/ APPLICANT: FRIEDMAN, PAULA N.
/ APPLICANT: GORDON JULIAN
/ APPLICANT: GRANADOS, EDWARD N.
/ APPLICANT: HODGES, STEVEN C.
/ APPLICANT: KLASS, MICHAEL R.
/ APPLICANT: KRATOCHVIL, JON D.
/ APPLICANT: ROBERTS-RAPP, LISA
/ APPLICANT: RUSSELL, JOHN C.
/ APPLICANT: STROUP, STEPHEN D.
/ TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
/ TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
/ NUMBER OF SEQUENCES: 41
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Abbott Laboratories
/ STREET: 100 Abbott Park Road
/ CITY: Abbott Park
/ STATE: IL
/ COUNTRY: USA
/ ZIP: 60064-3500
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/525,397
/ FILING DATE:
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/071,710
/ FILING DATE:
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Becker, Cheryl L.
/ REGISTRATION NUMBER: 35,441
/ REFERENCE/DOCKET NUMBER: 6083.US.P1
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 847/935-1729
/ TELEFAX: 847/938-2623
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 15:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2143 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ US-09-525-397-15
/ Query Match 100.0%; Score 28; DB 1; Length 2143;
/ Best Local Similarity 100.0%; Pred. No. 0.0083;
/ Matches 28; Conservative 0; Mismatches 0; Indels
/
/ QY 1 ATGCGTGTCACAGTGTGGCCGTGGTG 28
/ Db 206 ATGCGTGTCACAGTGTGGCCGTGGTG 233
/
/ RESULT 18
/ US-09-071-710-16
/ Sequence 16, Application US/09071710
/ Patent No. 6130043
/ GENERAL INFORMATION:
/ APPLICANT: BILLING-MEDEL, PATRICIA
/ APPLICANT: COHEN, MAURICE
/ APPLICANT: COLPITTS, TRACEY L.
/ APPLICANT: FRIEDMAN, PAULA N.
/ APPLICANT: GORDON, JULIAN
/ APPLICANT: GRANADOS, EDWARD N.
/ APPLICANT: HODGES, STEVEN C.
/ APPLICANT: KLASS, MICHAEL R.

```

APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE PROSTATE
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,710
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/850,713
FILING DATE: 02-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-071-710-16

Query Match 100.0%; Score 28; DB 3; Length 2152;
Best Local Similarity 100.0%; Pred. No. 0.0063;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGCTGTCCACAGTGTGGCGGTG 28
DB 214 ATGCTGTCCACAGTGTGGCGGTG 241

RESULT 19
US-09-525-397-16
Sequence 16, Application US/09525397
Patent No. 6252047
GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA
APPLICANT: COHEN, MAURICE
APPLICANT: COLPITTS, TRACEY L.
APPLICANT: FRIEDMAN, PAULA N.
APPLICANT: GORDON, JULIAN
APPLICANT: GRANADOS, EDWARD N.
APPLICANT: HODGES, STEVEN C.
APPLICANT: KLASS, MICHAEL R.
APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE PROSTATE
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories

STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/525,397
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/071,710
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-525-397-16

Query Match 100.0%; Score 28; DB 3; Length 2152;
Best Local Similarity 100.0%; Pred. No. 0.0063;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGCTGTCCACAGTGTGGCGGTG 28
DB 214 ATGCTGTCCACAGTGTGGCGGTG 241

RESULT 20
US-09-636-215-703
Sequence 703, Application US/09636215
Patent No. 6620922
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqi
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.42717C17
CURRENT APPLICATION NUMBER: US/09/636,215
CURRENT FILING DATE: 2000-08-10
NUMBER OF SEQ ID NOS: 852
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 703
LENGTH: 2904

```
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-636-215-703

Query Match      100.0%; Score 28; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGCCGTGGTG 28
Db      962 ATGCTGTCCACAGTGTGCCGTGGTG 989

RESULT 21
US-09-685-166A-703
; Sequence 703, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-685-166A-703

Query Match      100.0%; Score 28; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGCCGTGGTG 28
Db      962 ATGCTGTCCACAGTGTGCCGTGGTG 989

RESULT 22
US-09-679-426-703
; Sequence 703, Application US/09679426
; Patent No. 6759515
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

Query Match      100.0%; Score 28; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGCCGTGGTG 28
Db      962 ATGCTGTCCACAGTGTGCCGTGGTG 989

RESULT 23
US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. 6800746
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

Query Match      100.0%; Score 28; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGCCGTGGTG 28
Db      962 ATGCTGTCCACAGTGTGCCGTGGTG 989

RESULT 24
US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. 6800746
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

Query Match      100.0%; Score 28; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGCCGTGGTG 28
Db      962 ATGCTGTCCACAGTGTGCCGTGGTG 989
```

US-09-651-236-703
; Sequence 703, Application US/09651236
; Patent No. 6818751
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, William
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42718C18
; CURRENT APPLICATION NUMBER: US/09/651,236
; CURRENT FILING DATE: 2000-08-29
; NUMBER OF SEQ ID NOS: 865
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-651-236-703

Query Match 100.0%; Score 28; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGTGGTG 28
|||||
Db 962 ATGCCTGTCCACAGTGTGGCGTGGTG 989

RESULT 25
US-09-020-956-110
; Sequence 110, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-110

Query Match 100.0%; Score 28; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGTGGTG 28
|||||
Db 1390 ATGCCTGTCCACAGTGTGGCGTGGTG 1417

; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-110

Query Match 100.0%; Score 28; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGTGGTG 28
|||||
Db 1390 ATGCCTGTCCACAGTGTGGCGTGGTG 1417

RESULT 26

US-09-030-607-110
; Sequence 110, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-110

Query Match 100.0%; Score 28; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGTGGTG 28
|||||
Db 1390 ATGCCTGTCCACAGTGTGGCGTGGTG 1417


```
RESULT 27
US-09-439-313-110
; Sequence 110, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-439-313-110

Query Match      100.0%; Score 28; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGGCCGTGGTG 28
      ||||||||||||||||||||||||||||
Db      1390 ATGCTGTCCACAGTGTGGCCGTGGTG 1417

RESULT 28
US-09-352-616A-110
; Sequence 110, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqui
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110

Query Match      100.0%; Score 28; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGGCCGTGGTG 28
      ||||||||||||||||||||||||||||
Db      1390 ATGCTGTCCACAGTGTGGCCGTGGTG 1417

RESULT 29
US-09-602-877A-100
```

```
; Sequence 100, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602,877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-602-877A-100
```

```
Query Match      100.0%; Score 28; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGGCCGTGGTG 28
      ||||||||||||||||||||||||||||
Db      1390 ATGCTGTCCACAGTGTGGCCGTGGTG 1417
```

```
RESULT 30
US-09-232-149A-110
; Sequence 110, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110
```

```
Query Match      100.0%; Score 28; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.0067;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCTGTCCACAGTGTGGCCGTGGTG 28
      ||||||||||||||||||||||||||||
Db      1390 ATGCTGTCCACAGTGTGGCCGTGGTG 1417
```

Search completed: June 16, 2005, 02:34:37
Job time : 77.9057 secs

This Page Blank (uspto)

81 19.2 68.6 770 17 US-10-264-049-683 Sequence 683, App
82 19.2 68.6 1033 18 US-10-296-115-176 Sequence 176, App
83 19.2 68.6 1894 17 US-10-262-445-49 Sequence 49, Appl
84 19.2 68.6 2006 19 US-10-399-455-25 Sequence 25, Appl
85 19.2 68.6 2116 17 US-10-104-047-1384 Sequence 1384, Ap
86 19.2 68.6 2258 17 US-10-104-047-49 Sequence 49, Appl
87 19.2 68.6 2608 16 US-10-252-157-279 Sequence 279, App
88 19.2 68.6 3731 17 US-10-104-047-335 Sequence 335, Appl
89 19.2 68.6 22783 10 US-09-990-613-6 Sequence 6, Appli
90 19 67.9 27 9 US-09-838-785-6 Sequence 16823, A
91 19 67.9 561 19 US-10-021-323-16823 Sequence 6011, Ap
92 19 67.9 568 19 US-10-021-323-6011 Sequence 244936, A
93 19 67.9 622 13 US-10-027-632-244936 Sequence 244937, A
94 19 67.9 622 13 US-10-027-632-244937 Sequence 244937, A
95 19 67.9 622 17 US-10-027-632-244937 Sequence 244937, A
96 19 67.9 622 17 US-10-027-632-244937 Sequence 164037, A
97 19 67.9 690 13 US-10-027-632-164037 Sequence 164038, A
98 19 67.9 690 13 US-10-027-632-164038 Sequence 164039, A
99 19 67.9 690 13 US-10-027-632-164039 Sequence 164037, A
100 19 67.9 690 17 US-10-027-632-164037 Sequence 164038, A
101 19 67.9 690 17 US-10-027-632-164037 Sequence 164039, A
102 19 67.9 690 17 US-10-027-632-164039 Sequence 166559, A
103 19 67.9 793 13 US-10-027-632-166559 Sequence 166560, A
104 19 67.9 793 13 US-10-027-632-166560 Sequence 166561, A
105 19 67.9 793 13 US-10-027-632-166561 Sequence 166560, A
106 19 67.9 793 17 US-10-027-632-166560 Sequence 166561, A
107 19 67.9 793 17 US-10-027-632-166560 Sequence 166561, A
108 19 67.9 793 17 US-10-027-632-166561 Sequence 135, App
109 19 67.9 935 18 US-10-072-012-135 Sequence 46, Appl
110 19 67.9 1025 20 US-10-489-372-46 Sequence 31, Appl
111 19 67.9 1041 20 US-10-489-372-31 Sequence 29, Appl
112 19 67.9 1151 20 US-10-489-372-29 Sequence 2, Appli
113 19 67.9 1181 9 US-09-265-710-2 Sequence 9, Appli
114 19 67.9 1256 21 US-10-333-177-9 Sequence 1282, Ap
115 19 67.9 1307 17 US-10-264-237-1282 Sequence 846, App
116 19 67.9 1889 17 US-10-034-749-846 Sequence 238, App
117 19 67.9 1994 17 US-10-104-047-238 Sequence 2520, Ap
118 19 67.9 2065 21 US-10-956-157-2520 Sequence 7173, Ap
119 19 67.9 2330 19 US-10-723-860-7173 Sequence 85, Appl
120 19 67.9 3115 9 US-09-981-353-85 Sequence 96, Appl
121 19 67.9 3277 17 US-10-104-047-96 Sequence 1, Appli
122 19 67.9 4068 18 US-10-181-937-1 Sequence 420, App
123 18.6 66.4 449 21 US-10-914-037-420 Sequence 29652, A
124 18.6 66.4 613 19 US-10-767-701-29652 Sequence 24, Appl
125 18.6 66.4 5871 14 US-10-152-886-24 Sequence 25, Appl
126 18.6 66.4 26642 17 US-10-034-650-25 Sequence 811, App
127 18.6 66.4 27901 9 US-10-322-281-811 Sequence 17738, A
128 18.6 66.4 175189 21 US-10-741-600-17738 Sequence 1, Appli
129 18.6 66.4 235033 15 US-10-301-844-1 Sequence 2, Appli
130 18.6 66.4 237326 15 US-10-301-844-2 Sequence 2926, Ap
131 18.4 65.7 353 19 US-10-430-201-2926 Sequence 2927, Ap
132 18.4 65.7 353 19 US-10-430-201-2927 Sequence 11460, A
133 18.4 65.7 713 13 US-10-027-632-11460 Sequence 11460, A
134 18.4 65.7 713 17 US-10-027-632-11460 Sequence 1, Appli
135 18.4 65.7 1752 10 US-09-902-939-1 Sequence 379, App
136 18.4 65.7 32189 9 US-09-764-878-379 Sequence 377, App
137 18.4 65.7 32189 14 US-10-079-854-379 Sequence 377, App
138 18.4 65.7 32221 9 US-09-764-878-377 Sequence 108, App
139 18.4 65.7 32221 14 US-10-079-854-377 Sequence 288791, A
140 18.4 65.7 106068 20 US-10-417-375-108 Sequence 53582, A
141 18.2 65.0 611 13 US-10-027-632-288791 Sequence 9728, Ap
142 18.2 65.0 611 17 US-10-027-632-288791 Sequence 9728, Ap
143 18.4 64.3 182 20 US-10-425-115-53582 Sequence 9728, Ap
144 18.4 64.3 183 17 US-10-242-535A-9728 Sequence 414, App
145 18.4 64.3 183 18 US-10-085-783A-9728 Sequence 414, App
146 18.4 64.3 258 17 US-10-125-968-414 Sequence 8615, Ap
147 18.4 64.3 263 20 US-10-357-930-8615 Sequence 406, App
148 18.4 64.3 298 17 US-10-125-968-406 Sequence 3455, Ap
149 18.4 64.3 300 9 US-09-867-701-3455 Sequence 13239, A
150 18.4 64.3 301 14 US-10-198-846-13239

ALIGNMENTS

RESULT 1
US-09-841-894-1
; Sequence 1, Application US/09841894
; Publication No. US20020086301A1
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GORDON, JULIAN
; GRANADOS, EDWARD N.
; HODGES, STEVEN C.
; KLASS, MICHAEL R.
; KRATOCHVIL, JON D.
; ROBERTS-RAPP, LISA
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/841,894
FILING DATE: 25-Apr-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/071,710
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX: <Unknown>
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 258 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-841-894-1
Query Match 100.0%; Score 28; DB 9; Length 258;
Best Local Similarity 100.0%; Pred. No. 0.0066;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 ATGCCTCTCCACAGTGTGGCGTGGTG 28
|||||
Db 214 ATGCCTCTCCACAGTGTGGCGTGGTG 241
RESULT 2
US-10-144-678A-1026
; Sequence 1026, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.

APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqiu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedrick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William T.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Carlota
APPLICANT: Vinals y de Bassols
APPLICANT: Foy, Teresa M.
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Deng, Ta
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C28
CURRENT APPLICATION NUMBER: US/10/144,678A
CURRENT FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1026
LENGTH: 741
TYPE: DNA
ORGANISM: Homo sapiens
US-10-144-678A-1026

Query Match 100.0%; Score 28; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCCGTGGTG 28
|||||
Db 186 ATGCTGTCCACAGTGTGCCGTGGTG 213

RESULT 3
US-10-294-025-1026
Sequence 1026, Application US/10294025
Publication No. US20030185830A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1026
LENGTH: 741
TYPE: DNA
ORGANISM: Homo sapiens
US-10-294-025-1026

Query Match 100.0%; Score 28; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCCGTGGTG 28
|||||
Db 186 ATGCTGTCCACAGTGTGCCGTGGTG 213

RESULT 4
US-09-759-143-10
Sequence 10, Application US/09759143
Patent No. US2002022248A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqiu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedrick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C23
CURRENT APPLICATION NUMBER: US/09/759,143
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 934
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 789
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)...(789)
OTHER INFORMATION: n = A,T,C or G
US-09-759-143-10

Query Match 100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCCGTGGTG 28
|||||
Db 50 ATGCTGTCCACAGTGTGCCGTGGTG 77

RESULT 5
US-09-780-669-10
Sequence 10, Application US/09780669
Patent No. US20020051977A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqiu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedrick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.

```

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-780-669-10

Query Match      100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGGCGGTGGTG 28
Db      50 ATGCCTGTCCACAGTGTGGCGGTGGTG 77

RESULT 6
US-09-030-606-10
; Sequence 10, Application US/09030606
; Patent No. US20020081580A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS FOR
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESS: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,606
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.428C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-09-030-606-10

Query Match      100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGGCGGTGGTG 28
Db      50 ATGCCTGTCCACAGTGTGGCGGTGGTG 77

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-780-669-10

Query Match      100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGGCGGTGGTG 28
Db      50 ATGCCTGTCCACAGTGTGGCGGTGGTG 77

RESULT 7
US-09-822-827-10
; Sequence 10, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-822-827-10

Query Match      100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGGCGGTGGTG 28
Db      50 ATGCCTGTCCACAGTGTGGCGGTGGTG 77

RESULT 8
US-09-115-453-10
; Sequence 10, Application US/09115453B
; Patent No. US20020090372A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-115-453-10

Query Match      100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 ATGCCTGTCCACAGTGTGGCGGTGGTG 28
Db      50 ATGCCTGTCCACAGTGTGGCGGTGGTG 77

RESULT 9
US-09-232-880-10
; Sequence 10, Application US/09232880
; Publication No. US20020182596A1
; GENERAL INFORMATION:

```

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C6
; CURRENT APPLICATION NUMBER: US/09/232.880
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-232-880-10

Query Match 100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGGTG 28
|||||
Db 50 ATGCTGTCCACAGTGTGGCGGTG 77

RESULT 10

US-09-895-793-10
; Sequence 10, Application US/09895793
; Publication No. US20020192763A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolck, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C2
; CURRENT APPLICATION NUMBER: US/09/895.793
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-895-793-10

Query Match 100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGGTG 28
|||||
Db 50 ATGCTGTCCACAGTGTGGCGGTG 77

RESULT 11

US-09-895-814-10
; Sequence 10, Application US/09895814
; Publication No. US20020193296A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolck, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C26
; CURRENT APPLICATION NUMBER: US/09/895.814
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 990
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc.feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-895-814-10

Query Match 100.0%; Score 28; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGGTG 28
|||||
Db 50 ATGCTGTCCACAGTGTGGCGGTG 77

RESULT 12

US-10-012-896-10
; Sequence 10, Application US/10012896
; Publication No. US20020183251A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.


```
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
; OTHER INFORMATION: n = A,T,C or G
US-10-012-896-10

Query Match      100.0%; Score 28; DB 13; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGGTGGT 28
Db 50 ATGCCTGTCCACAGTGTGGCGGTGGT 77

RESULT 13
US-10-010-940-10
; Sequence 10, Application US/10010940
; Publication No. US2003008062A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqi
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427D3
; CURRENT APPLICATION NUMBER: US/10/010,940
; CURRENT FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
```

```
; NAME/KEY: misc feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-10-010-940-10

Query Match      100.0%; Score 28; DB 14; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGGTGGT 28
Db 50 ATGCCTGTCCACAGTGTGGCGGTGGT 77

RESULT 14
US-10-144-678A-10
; Sequence 10, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C28
; CURRENT APPLICATION NUMBER: US/10/144,678A
; CURRENT FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 1033
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
; LOCATION: 779, 783
; OTHER INFORMATION: n = A,T,C or G
US-10-144-678A-10

Query Match      100.0%; Score 28; DB 16; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCTGTCCACAGTGTGGCGGTGGT 28
Db 50 ATGCCTGTCCACAGTGTGGCGGTGGT 77

RESULT 15
US-10-294-025-10
; Sequence 10, Application US/10294025
```

Publication No. US20030185830A1

GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 789
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
LOCATION: 779, 783
OTHER INFORMATION: n = A,T,C or G
US-10-294-025-10

Query Match 100.0%; Score 28; DB 16; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCCGTGGTG 28

Db 50 ATGCTGTCCACAGTGTGCCGTGGTG 77

RESULT 16

US-10-688-838-10
Sequence 10, Application US/10688838
Publication No. US20040141989A1

GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427D4
CURRENT APPLICATION NUMBER: US/10/688,838
CURRENT FILING DATE: 2003-10-17
NUMBER OF SEQ ID NOS: 228
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 789
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
LOCATION: 779, 783
OTHER INFORMATION: n = A,T,C or G
US-10-688-838-10

Query Match 100.0%; Score 28; DB 19; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.0061;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCCGTGGTG 28

Db 50 ATGCTGTCCACAGTGTGCCGTGGTG 77

RESULT 17

US-10-144-678A-1027
Sequence 1027, Application US/10144678A
Publication No. US20030157089A1

GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.

APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqiu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William T.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals y de Bassols, Carlota
APPLICANT: Foy, Teresa M.
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Deng, Ta
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C28
CURRENT APPLICATION NUMBER: US/10/144,678A
CURRENT FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1027
LENGTH: 918
TYPE: DNA
ORGANISM: Homo sapiens
US-10-144-678A-1027

Query Match 100.0%; Score 28; DB 16; Length 918;
Best Local Similarity 100.0%; Pred. No. 0.006;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCCGTGGTG 28

Db 363 ATGCTGTCCACAGTGTGCCGTGGTG 390

RESULT 18

US-10-294-025-1027
Sequence 1027, Application US/10294025
Publication No. US20030185830A1

GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1027
LENGTH: 918
TYPE: DNA
ORGANISM: Homo sapiens
US-10-294-025-1027

Query Match 100.0%; Score 28; DB 16; Length 918;
Best Local Similarity 100.0%; Pred. No. 0.006;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCCGTGGTG 28

Db 363 ATGCTGTCCACAGTGTGCCGTGGTG 390

RESULT 19
US-10-896-1010
; Sequence 1010, Application US/10012896
; Publication No. US20020183251A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Mantanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1010
; LENGTH: 1065
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-012-896-1010

Query Match 100.0%; Score 28; DB 13; Length 1065;
Best Local Similarity 100.0%; Pred. No. 0.006;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
|||
Db 561 ATGCTGTCCACAGTGTGGCGTGGTG 588

RESULT 20
US-10-144-678A-1010
; Sequence 1010, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yugu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C28
; CURRENT APPLICATION NUMBER: US/10/144,678A
; CURRENT FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 1033
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1010
; LENGTH: 1065
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-144-678A-1010

Query Match 100.0%; Score 28; DB 16; Length 1065;
Best Local Similarity 100.0%; Pred. No. 0.006;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
|||
Db 561 ATGCTGTCCACAGTGTGGCGTGGTG 588

RESULT 21
US-10-294-025-1010
; Sequence 1010, Application US/10294025
; Publication No. US20030185830A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Kalos, Michael D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C29
; CURRENT APPLICATION NUMBER: US/10/294,025
; CURRENT FILING DATE: 2002-11-12
; NUMBER OF SEQ ID NOS: 1038
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1010
; LENGTH: 1065
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-294-025-1010

Query Match 100.0%; Score 28; DB 16; Length 1065;
Best Local Similarity 100.0%; Pred. No. 0.006;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
|||
Db 561 ATGCTGTCCACAGTGTGGCGTGGTG 588

RESULT 22
US-10-005-907-12
; Sequence 12, Application US/10005907
; Publication No. US20030166881A1
; GENERAL INFORMATION:
; APPLICANT: Union Chimique Belge, S.A.
; APPLICANT: No. US20030166881A1ka, Karl
; APPLICANT: Pirozzi, Gregory
; APPLICANT: Einstein, Richard
; TITLE OF INVENTION: NOVEL GENES ASSOCIATED WITH ALLERGIC HYPERSENSITIVITY AND MAST CE
; FILE REFERENCE: 053529-5005
; CURRENT APPLICATION NUMBER: US/10/005,907

; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1662)
; OTHER INFORMATION:
US-10-005-907-12

Query Match 100.0%; Score 28; DB 16; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0.0058;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGGTG 28
Db 1107 ATGCTGTCCACAGTGTGGCGGTG 1134

RESULT 23

US-10-295-027-547
; Sequence 547, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:

; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.

; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer

; FILE REFERENCE: 018501-012500US

; CURRENT APPLICATION NUMBER: US/10/295,027

; CURRENT FILING DATE: 2002-11-13

; PRIOR APPLICATION NUMBER: US 09/663,733

; PRIOR FILING DATE: 2000-09-15

; PRIOR APPLICATION NUMBER: US 60/350,666

; PRIOR FILING DATE: 2001-11-13

; PRIOR APPLICATION NUMBER: US 60/335,394

; PRIOR FILING DATE: 2001-11-15

; PRIOR APPLICATION NUMBER: US 60/332,464

; PRIOR FILING DATE: 2001-11-21

; PRIOR APPLICATION NUMBER: US 60/334,393

; PRIOR FILING DATE: 2001-11-29

; PRIOR APPLICATION NUMBER: US 60/340,376

; PRIOR FILING DATE: 2001-12-14

; PRIOR APPLICATION NUMBER: US 60/347,211

; PRIOR FILING DATE: 2002-01-08

; PRIOR APPLICATION NUMBER: US 60/347,349

; PRIOR FILING DATE: 2002-01-10

; PRIOR APPLICATION NUMBER: US 60/355,250

; PRIOR FILING DATE: 2002-02-08

; PRIOR APPLICATION NUMBER: US 60/356,714

; PRIOR FILING DATE: 2002-02-13

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 1386

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 547

; LENGTH: 1662

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-295-027-547

Query Match 100.0%; Score 28; DB 17; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0.0058;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGCTGTCCACAGTGTGGCGGTG 28
Db 1107 ATGCTGTCCACAGTGTGGCGGTG 1134

RESULT 24

US-10-403-142-1

; Sequence 1, Application US/10403142

; Publication No. US20040162236A1

; GENERAL INFORMATION:

; APPLICANT: Alsbrook et al.

; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD

; FILE REFERENCE: 21402-573A

; CURRENT APPLICATION NUMBER: US/10/403,142

; CURRENT FILING DATE: 2003-03-31

; PRIOR APPLICATION NUMBER: 08/969106

; PRIOR FILING DATE: 1997-11-13

; PRIOR APPLICATION NUMBER: 09/544511

; PRIOR FILING DATE: 2000-04-06

; PRIOR APPLICATION NUMBER: 60/369065

; PRIOR FILING DATE: 2002-04-01

; PRIOR APPLICATION NUMBER: 09/604286

; PRIOR FILING DATE: 2000-06-22

; PRIOR APPLICATION NUMBER: 09/651200

; PRIOR FILING DATE: 2000-08-30

; PRIOR APPLICATION NUMBER: 09/662783

; PRIOR FILING DATE: 2000-09-12

; PRIOR APPLICATION NUMBER: 09/688598

; PRIOR FILING DATE: 2000-10-12

; PRIOR APPLICATION NUMBER: 09/894159

; PRIOR FILING DATE: 2001-06-21

; PRIOR APPLICATION NUMBER: 09/918779

; PRIOR FILING DATE: 2001-07-31

; PRIOR APPLICATION NUMBER: 09/964956

; PRIOR FILING DATE: 2001-09-26

; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 242

; SOFTWARE: Curaseqlist version 0.1

; SEQ ID NO 1

; LENGTH: 1702

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (21)..(1679)

US-10-403-142-1

Query Match 100.0%; Score 28; DB 19; Length 1702;
Best Local Similarity 100.0%; Pred. No. 0.0058;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGGTG 28
Db 1127 ATGCTGTCCACAGTGTGGCGGTG 1154

RESULT 25

US-10-296-770-3

; Sequence 3, Application US/10296770

; Publication No. US20030104570A1

; GENERAL INFORMATION:

; APPLICANT: Cabezon Silva, Teresa Elisa Virginia

; APPLICANT: Delisse, Anne-Marie Eva Fernande

; TITLE OF INVENTION: Triple Fusion Proteins Comprising

; TITLE OF INVENTION: Ubiquitin Fused Between Thioredoxin and a Polypeptide of

; TITLE OF INVENTION: Interest

; FILE REFERENCE: B45221

; CURRENT APPLICATION NUMBER: US/10/296,770

; CURRENT FILING DATE: 2002-12-13

; PRIOR APPLICATION NUMBER: PCT/EP01/06952

; PRIOR FILING DATE: 2001-06-19

```

; PRIOR APPLICATION NUMBER: GB 0015619.0
; PRIOR FILING DATE: 2000-06-26
; PRIOR APPLICATION NUMBER: GB 0026484.6
; PRIOR FILING DATE: 2000-10-30
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2133
; TYPE: DNA
; ORGANISM: Chimaeric (E. coli - human)
US-10-296-770-3

```

```

Query Match      100.0%; Score 28; DB 15; Length 2133;
Best Local Similarity 100.0%; Pred. No. 0.0057;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 ATGCTGTCCACAGTGTGGCGTGGTG 28
Db      1554 ATGCTGTCCACAGTGTGGCGTGGTG 1581

```

RESULT 26

```

US-09-841-894-15
; Sequence 15, Application US/09841894
; Publication No. US20020086301A1
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GORDON, JULIAN
; GRANADOS, EDWARD N.
; HODGES, STEVEN C.
; KLOSS, MICHAEL R.
; KRATOCHVIL, JON D.
; ROBERTS-RAPP, LISA
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/841,894
; FILING DATE: 25-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 15:

```

```

US-09-841-894-15
Query Match      100.0%; Score 28; DB 9; Length 2143;
Best Local Similarity 100.0%; Pred. No. 0.0057;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 ATGCTGTCCACAGTGTGGCGTGGTG 28
Db      206 ATGCTGTCCACAGTGTGGCGTGGTG 233

```

RESULT 27

```

US-09-841-894-16
; Sequence 16, Application US/09841894
; Publication No. US20020086301A1
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GORDON, JULIAN
; GRANADOS, EDWARD N.
; HODGES, STEVEN C.
; KLOSS, MICHAEL R.
; KRATOCHVIL, JON D.
; ROBERTS-RAPP, LISA
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/841,894
; FILING DATE: 25-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:

```

```

Query Match      100.0%; Score 28; DB 9; Length 2152;
Best Local Similarity 100.0%; Pred. No. 0.0057;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 ATGCTGTCCACAGTGTGGCGTGGTG 28
Db      214 ATGCTGTCCACAGTGTGGCGTGGTG 241

```

```
RESULT 28
US-10-295-027-901
; Sequence 901, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glyne, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 901
; LENGTH: 2582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(2582)
; OTHER INFORMATION: n = g, a, c or t
US-10-295-027-901

Query Match 100.0%; Score 28; DB 17; Length 2582;
Best Local Similarity 100.0%; Pred. No. 0.0056;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCGCGTGGTG 28
Db 1416 ATGCTGTCCACAGTGTGCGCGTGGTG 1443

RESULT 29
US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. US2002022248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 901
; LENGTH: 2582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(2582)
; OTHER INFORMATION: n = g, a, c or t
US-10-295-027-901

Query Match 100.0%; Score 28; DB 17; Length 2582;
Best Local Similarity 100.0%; Pred. No. 0.0056;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCGCGTGGTG 28
Db 1416 ATGCTGTCCACAGTGTGCGCGTGGTG 1443
```

```
US-09-759-143-703
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

Query Match 100.0%; Score 28; DB 9; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.0056;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGCGCGTGGTG 28
Db 962 ATGCTGTCCACAGTGTGCGCGTGGTG 989

RESULT 30
US-09-780-669-703
; Sequence 703, Application US/09780669
; Patent No. US20020051977A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-780-669-703

Query Match 100.0%; Score 28; DB 9; Length 2904;
```

Best Local Similarity 100.0%; Pred. No. 0.0056;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCTGTCCACAGTGTGGCGTGGTG 28
|||
Db 962 ATGCTGTCCACAGTGTGGCGTGGTG 989

Search completed: June 16, 2005, 04:01:51
Job time : 439.453 secs

c 101 17 68.0 24368 4 US-09-949-016-15050
c 102 17 68.0 30922 4 US-09-949-016-16700
c 103 17 68.0 36317 4 US-09-949-016-12697
c 104 17 68.0 36322 4 US-09-949-016-14047
c 105 17 68.0 42894 4 US-09-949-016-12301
c 106 17 68.0 42898 4 US-09-949-016-15904
c 107 17 68.0 51928 4 US-09-949-016-13184
c 108 17 68.0 68580 4 US-09-949-016-15844
c 109 17 68.0 78720 4 US-09-949-016-12710
c 110 17 68.0 78720 4 US-09-949-016-17283
c 111 17 68.0 105733 4 US-09-949-016-13080
c 112 17 68.0 373182 4 US-09-949-016-17371
c 113 17 68.0 373694 4 US-09-949-016-12062
c 114 16.8 67.2 55 1 US-07-609-716-81
c 115 16.8 67.2 55 3 US-08-475-411A-81
c 116 16.8 67.2 55 3 US-08-478-029A-81
c 117 16.8 67.2 63 1 US-07-609-716-80
c 118 16.8 67.2 63 3 US-08-475-411A-80
c 119 16.8 67.2 63 3 US-08-478-029A-80
c 120 16.8 67.2 175 1 US-07-609-716-82
c 121 16.8 67.2 175 3 US-08-475-411A-82
c 122 16.8 67.2 175 3 US-08-478-029A-82
c 123 16.8 67.2 199 4 US-09-621-976-17273
c 124 16.8 67.2 444 3 US-09-132-316-57
c 125 16.8 67.2 601 4 US-09-949-016-17771
c 126 16.8 67.2 6063 4 US-09-949-016-11666
c 127 16.8 67.2 46343 4 US-09-949-016-16824
c 128 16.6 65.4 63 4 US-09-513-998C-22270
c 129 16.6 66.4 198 4 US-09-513-998C-26910
c 130 16.6 66.4 394 4 US-09-621-976-1749
c 131 16.6 66.4 543 4 US-09-270-767-4523
c 132 16.6 66.4 543 4 US-09-270-767-19805
c 133 16.6 66.4 598 3 US-09-370-838-273
c 134 16.6 66.4 598 4 US-09-854-133-273
c 135 16.6 66.4 601 4 US-09-949-016-112540
c 136 16.6 66.4 601 4 US-09-949-016-176939
c 137 16.6 66.4 900 4 US-09-949-016-3102
c 138 16.6 66.4 1041 4 US-09-602-777A-407
c 139 16.6 66.4 1194 4 US-09-489-039A-5039
c 140 16.6 66.4 1746 4 US-09-902-540-2585
c 141 16.6 66.4 2709 4 US-09-902-540-2727
c 142 16.6 66.4 5184 4 US-09-845-583A-9
c 143 16.6 66.4 5184 4 US-09-561-709B-4
c 144 16.6 66.4 5247 4 US-09-949-016-14844
c 145 16.6 66.4 11133 4 US-09-949-016-16567
c 146 16.6 66.4 14342 4 US-09-902-540-1118
c 147 16.6 66.4 15559 4 US-09-902-540-1128
c 148 16.6 66.4 26257 4 US-09-949-016-16791
c 149 16.6 66.4 33230 4 US-09-949-016-16732
c 150 16.6 66.4 40123 4 US-08-311-731A-137

ALIGNMENTS

RESULT 1
US-09-071-710-1
; Sequence 1, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL

; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 258 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-071-710-1
Query Match 100.0%; Score 25; DB 3; Length 258;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GCGCGTGTGACAGCTTCAGCCGCC 25
|||||
Db 232 GCGCGTGTGACAGCTTCAGCCGCC 256
|||||
RESULT 2
US-09-525-397-1
; Sequence 1, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500

```
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/525.397
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071.710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 258 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-525-397-1

Query Match 100.0%; Score 25; DB 3; Length 258;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
Db 232 GGCCGTGGTGACAGCTTCAGCGGCC 256

RESULT 3
US-09-020-956-10
; Sequence 10, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020.956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
```

```
;
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-09-020-956-10

Query Match 100.0%; Score 25; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
Db 68 GGCCGTGGTGACAGCTTCAGCGGCC 92

RESULT 4
US-09-030-607-10
; Sequence 10, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030.607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Makl, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-09-030-607-10

Query Match 100.0%; Score 25; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
Db 68 GGCCGTGGTGACAGCTTCAGCGGCC 92

RESULT 5
US-09-439-313-10
; Sequence 10, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
```

```
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)..(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-439-313-10

Query Match 100.0%; Score 25; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGTGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGTGACAGCTTCAGCGGCC 92

RESULT 6
US-09-352-616A-10
; Sequence 10, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqui
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)..(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-352-616A-10

Query Match 100.0%; Score 25; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGTGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGTGACAGCTTCAGCGGCC 92

RESULT 7
US-09-232-149A-10
; Sequence 10, Application US/09232149A
; Patent No. 6465611
```

```
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)..(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-232-149A-10

Query Match 100.0%; Score 25; DB 3; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGTGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGTGACAGCTTCAGCGGCC 92

RESULT 8
US-09-159-812-10
; Sequence 10, Application US/09159812A
; Patent No. 6613872
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF
; FILE REFERENCE: 210121.428C5
; CURRENT APPLICATION NUMBER: US/09/159,812A
; CURRENT FILING DATE: 1998-09-23
; NUMBER OF SEQ ID NOS: 306
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)..(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-159-812-10

Query Match 100.0%; Score 25; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGTGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGTGACAGCTTCAGCGGCC 92

RESULT 9
US-09-636-215-10
; Sequence 10, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
```

```
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-636-215-10

Query Match      100.0%; Score 25; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCCGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCCGCC 92

RESULT 10
US-09-685-166A-10
; Sequence 10, Application US/09685166A
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-688-489-10

Query Match      100.0%; Score 25; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCCGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCCGCC 92

RESULT 12
US-09-688-489-10
; Sequence 10, Application US/09688489
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427D2
; CURRENT APPLICATION NUMBER: US/09/688,489
; CURRENT FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-688-489-10

Query Match      100.0%; Score 25; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCCGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCCGCC 92

RESULT 11
US-09-115-453-10
; Sequence 10, Application US/09115453B
; Patent No. 6657056
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-115-453-10

Query Match      100.0%; Score 25; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCCGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCCGCC 92

RESULT 12
US-09-688-489-10
; Sequence 10, Application US/09688489
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427D2
; CURRENT APPLICATION NUMBER: US/09/688,489
; CURRENT FILING DATE: 2000-10-13
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-688-489-10

Query Match      100.0%; Score 25; DB 4; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCTGGTGACAGCTTCAGCGCC 25
 Db 68 GGCCTGGTGACAGCTTCAGCGCC 92

RESULT 13

US-09-679-426-10
 ; Sequence 10, Application US/09679426

; Patent No. 6759515

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yuqui
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Li, Samuel
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.427C20

; CURRENT APPLICATION NUMBER: US/09/679,426

; CURRENT FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 895

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 10

; LENGTH: 789

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (1)...(789)

; OTHER INFORMATION: n = A,T,C or G

US-09-679-426-10

Query Match 100.0%; Score 25; DB 4; Length 789;

Best Local Similarity 100.0%; Pred. No. 0.14;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCTGGTGACAGCTTCAGCGCC 25
 Db 68 GGCCTGGTGACAGCTTCAGCGCC 92

RESULT 14

US-09-759-143-10

; Sequence 10, Application US/09759143

; Patent No. 6800746

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yuqui
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: Carter, Darrick

; APPLICANT: Li, Samuel
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Hepler, William
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 ; FILE REFERENCE: 210121.427C23
 ; CURRENT APPLICATION NUMBER: US/09/759,143
 ; CURRENT FILING DATE: 2001-01-12
 ; NUMBER OF SEQ ID NOS: 934
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 10
 ; LENGTH: 789
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION: (1)...(789)
 ; OTHER INFORMATION: n = A,T,C or G
 ; US-09-759-143-10

Query Match 100.0%; Score 25; DB 4; Length 789;

Best Local Similarity 100.0%; Pred. No. 0.14;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCTGGTGACAGCTTCAGCGCC 25
 Db 68 GGCCTGGTGACAGCTTCAGCGCC 92

RESULT 15

US-09-651-236-10

; Sequence 10, Application US/09651236

; Patent No. 6818751

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer L.
 ; APPLICANT: Harlocker, Susan L.
 ; APPLICANT: Jiang, Yuqui
 ; APPLICANT: Henderson, Robert A.
 ; APPLICANT: Kalos, Michael D.
 ; APPLICANT: Fanger, Gary R.
 ; APPLICANT: Retter, Marc W.
 ; APPLICANT: Stolk, John A.
 ; APPLICANT: Day, Craig H.
 ; APPLICANT: Vedvick, Thomas S.
 ; APPLICANT: Carter, Darrick
 ; APPLICANT: Li, Samuel
 ; APPLICANT: Wang, Aijun
 ; APPLICANT: Skeiky, Yasir A.W.
 ; APPLICANT: Hepler, William

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

; FILE REFERENCE: 210121.42718C18

; CURRENT APPLICATION NUMBER: US/09/651,236

; CURRENT FILING DATE: 2000-08-29

; NUMBER OF SEQ ID NOS: 865

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 10

; LENGTH: 789

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (1)...(789)

; OTHER INFORMATION: n = A,T,C or G

US-09-651-236-10

Query Match

Best Local Similarity 100.0%; Score 25; DB 4; Length 789;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGTGGTGACAGCTTCAGCGCC 25
Db 68 GGCGTGGTGACAGCTTCAGCGCC 92

RESULT 16

US-09-071-710-15
; Sequence 15, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLAS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-09-071-710-15
Query Match 100.0%; Score 25; DB 3; Length 2143;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGTGGTGACAGCTTCAGCGCC 25
Db 224 GGCGTGGTGACAGCTTCAGCGCC 248

RESULT 17

US-09-525-397-15
; Sequence 15, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLAS, MICHAEL R.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-09-071-710-15
Query Match 100.0%; Score 25; DB 3; Length 2143;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGTGGTGACAGCTTCAGCGCC 25
Db 224 GGCGTGGTGACAGCTTCAGCGCC 248

RESULT 18

US-09-071-710-16
; Sequence 16, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLAS, MICHAEL R.

GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLAS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/525,397
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-09-525-397-15
Query Match 100.0%; Score 25; DB 3; Length 2143;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGTGGTGACAGCTTCAGCGCC 25
Db 224 GGCGTGGTGACAGCTTCAGCGCC 248

US-09-071-710-16
; Sequence 16, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLAS, MICHAEL R.

```

; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-071-710-16

Query Match 100.0%; Score 25; DB 3; Length 2152;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 232 GCGCGTGGTGACAGCTTCAGCGGCC 256

RESULT 19
US-09-525-397-16
; Sequence 16, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: HODGES, EDWARD N.
; APPLICANT: KLOSS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Abbott Laboratories

```

```

; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/525,397
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-525-397-16

Query Match 100.0%; Score 25; DB 3; Length 2152;
Best Local Similarity 100.0%; Pred. No. 0.15;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 232 GCGCGTGGTGACAGCTTCAGCGGCC 256

RESULT 20
US-09-636-215-703
; Sequence 703, Application US/09636215
; Patent No. 6620922
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.42717C17
; CURRENT APPLICATION NUMBER: US/09/636,215
; CURRENT FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 852
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904

```



```
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-636-215-703

Query Match      100.0%; Score 25; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25
Db 980 GGCGGTGGTGACAGCTTCAGCGGCC 1004

RESULT 21
US-09-685-166A-703
; Sequence 703, Application US/09685166A
; Patent No. 6630305
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C21
; CURRENT APPLICATION NUMBER: US/09/685,166A
; CURRENT FILING DATE: 2000-10-10
; NUMBER OF SEQ ID NOS: 898
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-685-166A-703

Query Match      100.0%; Score 25; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25
Db 980 GGCGGTGGTGACAGCTTCAGCGGCC 1004

RESULT 22
US-09-679-426-703
; Sequence 703, Application US/09679426
; Patent No. 6759515
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
```

```
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C20
; CURRENT APPLICATION NUMBER: US/09/679,426
; CURRENT FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 895
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-679-426-703

Query Match      100.0%; Score 25; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25
Db 980 GGCGGTGGTGACAGCTTCAGCGGCC 1004

RESULT 23
US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. 6800746
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqui
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

Query Match      100.0%; Score 25; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25
Db 980 GGCGGTGGTGACAGCTTCAGCGGCC 1004

RESULT 24
```

US-09-651-236-703
; Sequence 703, Application US/09651236
; Patent No. 6818751
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.42718C18
; CURRENT APPLICATION NUMBER: US/09/651,236
; CURRENT FILING DATE: 2000-08-29
; NUMBER OF SEQ ID NOS: 865
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-651-236-703

Query Match 100.0%; Score 25; DB 4; Length 2904;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
|||||
Db 980 GGCCGTGGTGACAGCTTCAGCGGCC 1004

RESULT 25
US-09-020-956-110
; Sequence 110, Application US/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-020-956-110

Query Match 100.0%; Score 25; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
|||||
Db 1408 GGCCGTGGTGACAGCTTCAGCGGCC 1432

RESULT 26
US-09-030-607-110
; Sequence 110, Application US/09030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS FO
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
US-09-030-607-110

Query Match 100.0%; Score 25; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
|||||
Db 1408 GGCCGTGGTGACAGCTTCAGCGGCC 1432

```
RESULT 27
US-09-439-313-110
; Sequence 110, Application US/09439313
; Patent No. 6329505
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427C9
; CURRENT APPLICATION NUMBER: US/09/439,313
; CURRENT FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-439-313-110

Query Match      100.0%; Score 25; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 1408 GCGCGTGGTGACAGCTTCAGCGGCC 1432

RESULT 28
US-09-352-616A-110
; Sequence 110, Application US/09352616A
; Patent No. 6395278
; GENERAL INFORMATION:
; APPLICANT: Dillon, Davin C.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang, Yuqui
; APPLICANT: Xu, Jiangchun
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.427C8
; CURRENT APPLICATION NUMBER: US/09/352,616A
; CURRENT FILING DATE: 1999-07-13
; NUMBER OF SEQ ID NOS: 472
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-352-616A-110

Query Match      100.0%; Score 25; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 1408 GCGCGTGGTGACAGCTTCAGCGGCC 1432

RESULT 29
US-09-602-877A-100
```

```
; Sequence 100, Application US/09602877A
; Patent No. 6432707
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.446C5
; CURRENT APPLICATION NUMBER: US/09/602,877A
; CURRENT FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-602-877A-100
```

```
Query Match      100.0%; Score 25; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 1408 GCGCGTGGTGACAGCTTCAGCGGCC 1432
```

```
RESULT 30
US-09-232-149A-110
; Sequence 110, Application US/09232149A
; Patent No. 6465611
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110
```

```
Query Match      100.0%; Score 25; DB 3; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0.16;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 1408 GCGCGTGGTGACAGCTTCAGCGGCC 1432
```

Search completed: June 16, 2005, 02:34:40
Job time : 68.0943 secs

This Page Blank (uspto)

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 16, 2005, 02:02:03 ; Search time 232.547 Seconds
(without alignment)
666.430 Million cell updates/sec

Title: US-09-605-783A-110_COPY_1408_1432
Perfect score: 25
Sequence: 1 ggcgtggtgacagcttcagccgc 25

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6046767 seqs, 3099530249 residues

Total number of hits satisfying chosen parameters: 12093534

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : Published Applications NA:*

1:	/cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq.*
2:	/cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq.*
3:	/cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq.*
4:	/cgn2_6/ptodata/1/pubpna/US06_PUBCOMB.seq.*
5:	/cgn2_6/ptodata/1/pubpna/US07_NEW_PUB.seq.*
6:	/cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq.*
7:	/cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq.*
8:	/cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
9:	/cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq.*
10:	/cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq.*
11:	/cgn2_6/ptodata/1/pubpna/US09C_PUBCOMB.seq.*
12:	/cgn2_6/ptodata/1/pubpna/US09C_NEW_PUB.seq.*
13:	/cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq.*
14:	/cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
15:	/cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
16:	/cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
17:	/cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
18:	/cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*
19:	/cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq.*
20:	/cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq.*
21:	/cgn2_6/ptodata/1/pubpna/US10I_PUBCOMB.seq.*
22:	/cgn2_6/ptodata/1/pubpna/US10J_NEW_PUB.seq.*
23:	/cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq.*
24:	/cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq.*
25:	/cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq.*
26:	/cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	25	100.0	258	9	US-09-841-894-1
2	25	100.0	741	16	US-10-144-678A-1026
3	25	100.0	741	16	US-10-294-025-1026
4	25	100.0	789	9	US-09-759-143-10
5	25	100.0	789	9	US-09-780-669-10
6	25	100.0	789	9	US-09-030-606-10
7	25	100.0	789	9	US-09-822-827-10
Sequence 1, Appli					
Sequence 1026, Ap					
Sequence 10, Appl					
Sequence 10, Appl					
Sequence 10, Appl					
Sequence 10, Appl					
Sequence 10, Appl					

US-09-115-453-10	9	789	25	100.0	8
US-09-232-880-10	9	789	25	100.0	9
US-09-895-793-10	9	789	25	100.0	10
US-09-895-814-10	9	789	25	100.0	11
US-10-012-896-10	13	789	25	100.0	12
US-10-010-940-10	14	789	25	100.0	13
US-10-144-678A-10	16	789	25	100.0	14
US-10-294-025-10	16	789	25	100.0	15
US-10-688-838-10	19	789	25	100.0	16
US-10-144-678A-1027	16	918	25	100.0	17
US-10-294-025-1027	16	918	25	100.0	18
US-10-012-896-1010	1065	13	25	100.0	19
US-10-144-678A-1010	1065	16	25	100.0	20
US-10-294-025-1010	1065	16	25	100.0	21
US-10-005-907-12	1662	16	25	100.0	22
US-10-295-027-547	1682	17	25	100.0	23
US-10-403-142-1	1702	19	25	100.0	24
US-10-296-770-3	2133	15	25	100.0	25
US-09-841-894-15	2143	9	25	100.0	26
US-09-841-894-16	2152	9	25	100.0	27
US-10-295-027-901	2582	17	25	100.0	28
US-09-759-143-703	2904	9	25	100.0	29
US-09-780-669-703	2904	9	25	100.0	30
US-09-822-827-703	2904	9	25	100.0	31
US-09-895-793-703	2904	9	25	100.0	32
US-09-895-814-703	2904	9	25	100.0	33
US-10-012-896-703	2904	13	25	100.0	34
US-10-144-678A-703	2904	16	25	100.0	35
US-10-294-025-703	2904	16	25	100.0	36
US-09-838-785-1	3320	9	25	100.0	37
US-10-936-626-21	3332	21	25	100.0	38
US-10-938-061-21	3332	21	25	100.0	39
US-09-745-288-100	3410	9	25	100.0	40
US-09-759-143-110	3410	9	25	100.0	41
US-09-780-669-110	3410	9	25	100.0	42
US-09-030-606-110	3410	9	25	100.0	43
US-09-822-827-110	3410	9	25	100.0	44
US-09-115-453-110	3410	9	25	100.0	45
US-09-232-880-110	3410	9	25	100.0	46
US-09-895-793-110	3410	9	25	100.0	47
US-09-895-814-110	3410	13	25	100.0	48
US-10-010-940-110	3410	14	25	100.0	49
US-10-144-678A-110	3410	16	25	100.0	50
US-10-294-025-110	3410	16	25	100.0	51
US-10-453-913-100	3410	18	25	100.0	52
US-10-688-838-100	3410	19	25	100.0	53
US-09-759-143-704	4034	9	25	100.0	54
US-09-780-669-704	4034	9	25	100.0	55
US-09-822-827-704	4034	9	25	100.0	56
US-09-895-793-704	4034	9	25	100.0	57
US-09-895-814-704	4034	9	25	100.0	58
US-10-012-896-704	4034	13	25	100.0	59
US-10-144-678A-704	4034	16	25	100.0	60
US-10-294-025-704	4034	16	25	100.0	61
US-09-759-143-702	4894	9	25	100.0	62
US-09-780-669-702	4894	9	25	100.0	63
US-09-822-827-702	4894	9	25	100.0	64
US-09-895-793-702	4894	9	25	100.0	65
US-09-895-814-702	4894	9	25	100.0	66
US-10-012-896-702	4894	13	25	100.0	67
US-10-144-678A-702	4894	16	25	100.0	68
US-10-294-025-702	4894	16	25	100.0	69
US-09-759-143-705	6976	9	25	100.0	70
US-09-780-669-705	6976	9	25	100.0	71
US-09-822-827-705	6976	9	25	100.0	72
US-09-895-793-705	6976	9	25	100.0	73
US-09-895-814-705	6976	9	25	100.0	74
US-10-012-896-705	6976	13	25	100.0	75
US-10-144-678A-705	6976	16	25	100.0	76
US-10-294-025-705	6976	16	25	100.0	77
US-10-029-386-6953	501	16	19.2	76.8	78
US-10-741-601-19179	201	19	18.6	74.4	79
					80

c

c

Sequence 51216, A
Sequence 26192, A
Sequence 1, Appli
Sequence 17817, A
Sequence 5713, Ap
Sequence 17817, A
Sequence 5684, Ap
Sequence 17734, A
Sequence 67085, A
Sequence 9514, Ap
Sequence 48208, A
Sequence 44570, A
Sequence 44566, A
Sequence 9521, Ap
Sequence 1392, Ap
Sequence 9510, Ap
Sequence 44558, A
Sequence 44568, A
Sequence 44559, A
Sequence 19143, A
Sequence 47666, A
Sequence 3, Appli
Sequence 871, Appl
Sequence 33210, A
Sequence 139668, A
Sequence 78535, A
Sequence 11450, A
Sequence 39433, A
Sequence 11459, A
Sequence 109475, A
Sequence 31, Appl
Sequence 3847, Ap
Sequence 3848, Ap
Sequence 33025, A
Sequence 5443, Ap
Sequence 1750, Ap
Sequence 64460, A
Sequence 7167, Ap
Sequence 13360, A
Sequence 116667, A
Sequence 21, Appl
Sequence 100800, A
Sequence 23340, A
Sequence 11, Appl
Sequence 3470, Ap
Sequence 109, App
Sequence 27124, A
Sequence 3, Appli
Sequence 628, App
Sequence 1, Appli
Sequence 2, Appli
Sequence 32, Appl
Sequence 41, Appl
Sequence 1, Appli
Sequence 1, Appli
Sequence 9083, Ap
Sequence 190, App
Sequence 4457, Ap
Sequence 170536, A
Sequence 6817, Ap
Sequence 65051, A
Sequence 807, App
Sequence 21653, A
Sequence 46754, A
Sequence 33926, A
Sequence 97198, A
Sequence 97776, A
Sequence 98776, A

201
1059
5014
21739
21739
55689
55689
4176
4428
4791
5106
5181
5385
5619
5649
5712
6018
6093
6574
12017
164841
12
1440
1880
1916
3096
3447
5207
247
289
421
421
480
513
687
801
1005
1134
1206
1257
1407
1478
1786
2757
2895
3064
3372
3432
4273
4282
4321
269223
3309400
9025608
507
33126
317
603
693
804
1221
1369
1467
1737
1758
1758

US-10-741-600-51216
US-10-437-963-26192
US-10-451-373-1
US-10-128-558-278
US-10-741-601-57113
US-10-741-600-17817
US-10-741-601-5684
US-10-741-600-17734
US-10-437-963-67085
US-10-437-963-9514
US-10-437-963-48208
US-10-437-963-44570
US-10-437-963-44566
US-10-437-963-9521
US-10-437-963-1392
US-10-437-963-9510
US-10-437-963-44558
US-10-437-963-44568
US-10-437-963-44559
US-10-437-963-19143
US-10-437-963-47666
US-09-735-927-3
US-10-087-192-871
US-10-282-122A-32310
US-10-424-599-139668
US-10-424-599-78535
US-10-425-115-11450
US-10-437-963-39433
US-10-425-115-11459
US-10-425-115-109475
US-10-090-280-31
US-10-430-201-3847
US-10-430-201-3848
US-10-437-963-33025
US-09-974-300-5443
US-09-738-626-1750
US-10-424-599-64460
US-10-156-761-7167
US-10-282-122A-13360
US-10-425-115-116667
US-10-214-446-21
US-10-437-963-100800
US-09-934-070-11
US-10-222-772-11
US-09-738-626-3470
US-10-781-014-109
US-10-282-122A-27124
US-09-978-698-3
US-10-739-930-628
US-10-090-280-1
US-10-090-280-2
US-10-467-685-32
US-10-672-787-41
US-09-738-626-1
US-10-156-761-1
US-09-783-590-9083
US-10-085-117-190
US-09-864-408A-4457
US-10-425-115-170536
US-10-767-701-6817
US-10-425-115-65051
US-10-156-761-807
US-10-425-114-21653
US-10-369-493-46754
US-10-425-114-33926
US-10-027-632-97198
US-10-027-632-98776
US-10-027-632-98776

ALIGNMENTS

RESULT 1

US-09-841-894-1
Sequence 1, Application US/09841894
Publication No. US20020086301A1

GENERAL INFORMATION:
APPLICANT: BILLING-MEDEL, PATRICIA
COHEN, MAURICE
COLPITTS, TRACEY L.
FRIEDMAN, PAULA N.
GORDON, JULIAN
GRANADOS, EDWARD N.
HODGES, STEVEN C.
KLASS, MICHAEL R.
KRATOCHVIL, JON D.
ROBERTS-RAPP, LISA

TITLE OF INVENTION: REAGENTS AND METHODS USEFUL

FOR DETECTING DISEASES OF THE PROSTATE

NUMBER OF SEQUENCES: 41

CORRESPONDENCE ADDRESS:

ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL

ZIP: 60064-3500

COUNTRY: USA

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/841,894

FILING DATE: 25-Apr-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/071,710

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Becker, Cheryl L.

REGISTRATION NUMBER: 35,441

REFERENCE/DOCKET NUMBER: 6083.US.P1

TELECOMMUNICATION INFORMATION:

TELEPHONE: 847/935-1729

TELEFAX: 847/938-2623

TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 258 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-09-841-894-1

Query Match 100.0%; Score 25; DB 9; Length 258;

Best Local Similarity 100.0%; Pred.No. 0.13;

Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTACAGCTTCAGCGCC 25

Db 232 GGCGGTGGTACAGCTTCAGCGCC 256

RESULT 2

US-10-144-678A-1026

Sequence 1026, Application US/10144678A

Publication No. US20030157089A1

GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun

APPLICANT: Dillon, Devin C.

APPLICANT: Mitcham, Jennifer L.

APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqui
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William T.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals y de Bassols, Carlota
APPLICANT: Foy, Teresa M.
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Deng, Ta
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C28
CURRENT APPLICATION NUMBER: US/10/144.678A
CURRENT FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1026
LENGTH: 741
TYPE: DNA
ORGANISM: Homo sapiens
US-10-144-678A-1026

Query Match 100.0%; Score 25; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25
Db 204 GGCGGTGGTGACAGCTTCAGCGGCC 228

RESULT 3
US-10-294-025-1026
Sequence 1026, Application US/10294025
Publication No. US20030185830A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Kalos, Michael D.
APPLICANT: Stolk, John A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294.025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 1026
LENGTH: 741
TYPE: DNA
ORGANISM: Homo sapiens
US-10-294-025-1026

Query Match 100.0%; Score 25; DB 16; Length 741;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25
Db 204 GGCGGTGGTGACAGCTTCAGCGGCC 228

RESULT 4
US-09-759-143-10
Sequence 10, Application US/09759143
Patent No. US2002002248A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqui
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C23
CURRENT APPLICATION NUMBER: US/09/759,143
CURRENT FILING DATE: 2001-01-12
NUMBER OF SEQ ID NOS: 934
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 10
LENGTH: 789
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(789)
OTHER INFORMATION: n = A,T,C or G
US-09-759-143-10

Query Match 100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25
Db 68 GGCGGTGGTGACAGCTTCAGCGGCC 92

RESULT 5
US-09-780-669-10
Sequence 10, Application US/09780669
Patent No. US20020051977A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqui
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.

```

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-780-669-10

Query Match      100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCGGCC 92

RESULT 6
US-09-030-606-10
; Sequence 10, Application US/09030606
; Patent No. US20020081580A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,606
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.428C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-09-030-606-10

Query Match      100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCGGCC 92

```

```

Db 68 GCGCGTGGTGACAGCTTCAGCGGCC 92

RESULT 7
US-09-822-827-10
; Sequence 10, Application US/09822827
; Patent No. US20020081680A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C1
; CURRENT APPLICATION NUMBER: US/09/822,827
; CURRENT FILING DATE: 2001-03-28
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-822-827-10

Query Match      100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCGGCC 92

RESULT 8
US-09-115-453-10
; Sequence 10, Application US/09115453B
; Patent No. US20020090372A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; NAME/KEY: misc feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-115-453-10

Query Match      100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 68 GCGCGTGGTGACAGCTTCAGCGGCC 92

RESULT 9
US-09-232-880-10
; Sequence 10, Application US/09232880
; Publication No. US20020182596A1
; GENERAL INFORMATION:

```


; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; TITLE OF INVENTION: PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C6
; CURRENT APPLICATION NUMBER: US/09/232.880
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-232-880-10

Query Match 100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
|||||
Db 68 GGCCGTGGTGACAGCTTCAGCGGCC 92

RESULT 10

US-09-895-793-10
; Sequence 10, Application US/09895793
; Publication No. US20020192763A1

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John H.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.534C2
; CURRENT APPLICATION NUMBER: US/09/895,793
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 982
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G

US-09-895-793-10

Query Match 100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
|||||
Db 68 GGCCGTGGTGACAGCTTCAGCGGCC 92

RESULT 11

US-09-895-814-10

; Sequence 10, Application US/09895814
; Publication No. US20020193296A1

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John H.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C26
; CURRENT APPLICATION NUMBER: US/09/895,814
; CURRENT FILING DATE: 2001-06-29
; NUMBER OF SEQ ID NOS: 990
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(789)
; OTHER INFORMATION: n = A,T,C or G
US-09-895-814-10

Query Match 100.0%; Score 25; DB 9; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCGTGGTGACAGCTTCAGCGGCC 25
|||||
Db 68 GGCCGTGGTGACAGCTTCAGCGGCC 92

RESULT 12

US-10-012-896-10

; Sequence 10, Application US/10012896
; Publication No. US20020183251A1

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.

```
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
; LOCATION: 779, 783
; OTHER INFORMATION: n = A,T,C or G
US-10-012-896-10

Query Match      100.0%; Score 25; DB 13; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GCGCGTGGTGACAGCTTCAGCCGCC 25
        |||||||
Db      68  GCGCGTGGTGACAGCTTCAGCCGCC 92

RESULT 13
US-10-010-940-10
; Sequence 10, Application US/10010940
; Publication No. US2003008062A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqi
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121.427D3
; CURRENT APPLICATION NUMBER: US/10/010,940
; CURRENT FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 575
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:

; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27
; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10
; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
; LOCATION: 779, 783
; OTHER INFORMATION: n = A,T,C or G
US-10-012-896-10

Query Match      100.0%; Score 25; DB 13; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GCGCGTGGTGACAGCTTCAGCCGCC 25
        |||||||
Db      68  GCGCGTGGTGACAGCTTCAGCCGCC 92

RESULT 14
US-10-144-678A-10
; Sequence 10, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.
; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C28
; CURRENT APPLICATION NUMBER: US/10/144,678A
; CURRENT FILING DATE: 2002-08-12
; NUMBER OF SEQ ID NOS: 1033
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 789
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
; LOCATION: 779, 783
; OTHER INFORMATION: n = A,T,C or G
US-10-144-678A-10

Query Match      100.0%; Score 25; DB 16; Length 789;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GCGCGTGGTGACAGCTTCAGCCGCC 25
        |||||||
Db      68  GCGCGTGGTGACAGCTTCAGCCGCC 92

RESULT 15
US-10-294-025-10
; Sequence 10, Application US/10294025
```

Publication No. US20030185830A1

GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 789
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
LOCATION: 779, 783
OTHER INFORMATION: n = A,T,C or G
US-10-294-025-10

Query Match 100.0%; Score 25; DB 16; Length 789;

Best Local Similarity 100.0%; Pred.No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25

Db 68 GGCGGTGGTGACAGCTTCAGCGGCC 92

RESULT 16

US-10-688-838-10
Sequence 10, Application US/10688838
Publication No. US20040141989A1

GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121.427D4
CURRENT APPLICATION NUMBER: US/10/688,838
CURRENT FILING DATE: 2003-10-17
NUMBER OF SEQ ID NOS: 228
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 789
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: 9, 380, 451, 565, 582, 716, 718, 758, 762, 765, 768, 771,
LOCATION: 779, 783
OTHER INFORMATION: n = A,T,C or G
US-10-688-838-10

Query Match 100.0%; Score 25; DB 19; Length 789;

Best Local Similarity 100.0%; Pred.No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25

Db 68 GGCGGTGGTGACAGCTTCAGCGGCC 92

RESULT 17

US-10-144-678A-1027
Sequence 1027, Application US/10144678A
Publication No. US20030157089A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Dillon, Davin C.

APPLICANT: Mitcham, Jennifer L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Jiang, Yuqiu
APPLICANT: Henderson, Robert A.
APPLICANT: Kalos, Michael D.
APPLICANT: Fanger, Gary R.
APPLICANT: Retter, Marc W.
APPLICANT: Stolk, John A.
APPLICANT: Day, Craig H.
APPLICANT: Vedvick, Thomas S.
APPLICANT: Carter, Darrick
APPLICANT: Li, Samuel X.
APPLICANT: Wang, Aijun
APPLICANT: Skeiky, Yasir A. W.
APPLICANT: Hepler, William T.
APPLICANT: Hural, John
APPLICANT: McNeill, Patricia D.
APPLICANT: Houghton, Raymond L.
APPLICANT: Vinals y de Bassols, Carlota
APPLICANT: Foy, Teresa M.
APPLICANT: Watanabe, Yoshihiro
APPLICANT: Deng, Ta
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C28
CURRENT APPLICATION NUMBER: US/10/144,678A
CURRENT FILING DATE: 2002-08-12
NUMBER OF SEQ ID NOS: 1033
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1027
LENGTH: 918
TYPE: DNA
ORGANISM: Homo sapiens
US-10-144-678A-1027

Query Match 100.0%; Score 25; DB 16; Length 918;

Best Local Similarity 100.0%; Pred.No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25

Db 381 GGCGGTGGTGACAGCTTCAGCGGCC 405

RESULT 18

US-10-294-025-1027
Sequence 1027, Application US/10294025
Publication No. US20030185830A1
GENERAL INFORMATION:
APPLICANT: Xu, Jiangchun
APPLICANT: Stolk, John A.
APPLICANT: Kalos, Michael D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
FILE REFERENCE: 210121.427C29
CURRENT APPLICATION NUMBER: US/10/294,025
CURRENT FILING DATE: 2002-11-12
NUMBER OF SEQ ID NOS: 1038
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1027
LENGTH: 918
TYPE: DNA
ORGANISM: Homo sapiens
US-10-294-025-1027

Query Match 100.0%; Score 25; DB 16; Length 918;

Best Local Similarity 100.0%; Pred.No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGGTGGTGACAGCTTCAGCGGCC 25

Db 381 GGCGGTGGTGACAGCTTCAGCGGCC 405

RESULT 19
US-10-012-896-1010
; Sequence 1010, Application US/10012896
; Publication No. US20020183251A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Kalos, Michael D.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals de Bassols, Carlota
; APPLICANT: Foy, Teresa
; APPLICANT: Fanger, Gary R.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Meagher, Madeleine Joy

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C27

; CURRENT APPLICATION NUMBER: US/10/012,896
; CURRENT FILING DATE: 2001-12-10

; NUMBER OF SEQ ID NOS: 1011
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1010
; LENGTH: 1065

; TYPE: DNA
; ORGANISM: Homo sapiens

US-10-012-896-1010

Query Match 100.0%; Score 25; DB 13; Length 1065;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGCC 25
|||||
Db 579 GCGCGTGGTGACAGCTTCAGCGCC 603

RESULT 20
US-10-144-678A-1010
; Sequence 1010, Application US/10144678A
; Publication No. US20030157089A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedwick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel X.
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A. W.

; APPLICANT: Hepler, William T.
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Vinals y de Bassols, Carlota
; APPLICANT: Foy, Teresa M.
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Deng, Ta
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C28

; CURRENT APPLICATION NUMBER: US/10/144,678A
; CURRENT FILING DATE: 2002-08-12

; NUMBER OF SEQ ID NOS: 1033
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1010
; LENGTH: 1065

; TYPE: DNA
; ORGANISM: Homo sapiens

US-10-144-678A-1010

Query Match 100.0%; Score 25; DB 16; Length 1065;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGCC 25
|||||
Db 579 GCGCGTGGTGACAGCTTCAGCGCC 603

RESULT 21

US-10-294-025-1010

; Sequence 1010, Application US/10294025
; Publication No. US20030185830A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Stolk, John A.
; APPLICANT: Kalos, Michael D.

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.427C29

; CURRENT APPLICATION NUMBER: US/10/294,025
; CURRENT FILING DATE: 2002-11-12

; NUMBER OF SEQ ID NOS: 1038
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1010
; LENGTH: 1065

; TYPE: DNA
; ORGANISM: Homo sapiens

US-10-294-025-1010

Query Match 100.0%; Score 25; DB 16; Length 1065;
Best Local Similarity 100.0%; Pred. No. 0.13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGCC 25
|||||
Db 579 GCGCGTGGTGACAGCTTCAGCGCC 603

RESULT 22

US-10-005-907-12

; Sequence 12, Application US/10005907
; Publication No. US20030166881A1
; GENERAL INFORMATION:

; APPLICANT: Union Chimique Belge, S.A.
; APPLICANT: No. US20030166881A1ka, Karl

; APPLICANT: Pirozzi, Gregory
; APPLICANT: Einstein, Richard

; TITLE OF INVENTION: NOVEL GENES ASSOCIATED WITH ALLERGIC HYPERSENSITIVITY AND MAST CELL

; FILE REFERENCE: 053529-5005
; CURRENT APPLICATION NUMBER: US/10/005,907

```
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1662)
; OTHER INFORMATION:
US-10-005-907-12

Query Match      100.0%; Score 25; DB 16; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 1125 GCGCGTGGTGACAGCTTCAGCGGCC 1149

RESULT 23
US-10-295-027-547
; Sequence 547, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 547
; LENGTH: 1662
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-295-027-547

Query Match      100.0%; Score 25; DB 17; Length 1662;
Best Local Similarity 100.0%; Pred. No. 0.12;
```

```
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 1125 GCGCGTGGTGACAGCTTCAGCGGCC 1149

RESULT 24
US-10-403-142-1
; Sequence 1, Application US/10403142
; Publication No. US20040162236A1
; GENERAL INFORMATION:
; APPLICANT: Alsbrook et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
; FILE REFERENCE: 21402-573A
; CURRENT APPLICATION NUMBER: US/10/403,142
; CURRENT FILING DATE: 2003-03-31
; PRIOR APPLICATION NUMBER: 08/969106
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 09/544511
; PRIOR FILING DATE: 2000-04-06
; PRIOR APPLICATION NUMBER: 60/369065
; PRIOR FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: 09/604286
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: 09/651200
; PRIOR FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 09/662783
; PRIOR FILING DATE: 2000-09-12
; PRIOR APPLICATION NUMBER: 09/688598
; PRIOR FILING DATE: 2000-10-12
; PRIOR APPLICATION NUMBER: 09/894159
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 09/918779
; PRIOR FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: 09/964956
; PRIOR FILING DATE: 2001-09-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 242
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 1
; LENGTH: 1702
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (21)..(1679)
US-10-403-142-1

Query Match      100.0%; Score 25; DB 19; Length 1702;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GCGCGTGGTGACAGCTTCAGCGGCC 25
Db 1145 GCGCGTGGTGACAGCTTCAGCGGCC 1169

RESULT 25
US-10-296-770-3
; Sequence 3, Application US/10296770
; Publication No. US20030104570A1
; GENERAL INFORMATION:
; APPLICANT: Cabezon Silva, Teresa Elisa Virginia
; APPLICANT: Delisse, Anne-Marie Eva Fernande
; TITLE OF INVENTION: Triple Fusion Proteins Comprising
; TITLE OF INVENTION: Ubiquitin Fused Between Thioedoxin and a Polypeptide of
; TITLE OF INVENTION: Interest
; FILE REFERENCE: B45221
; CURRENT APPLICATION NUMBER: US/10/296,770
; CURRENT FILING DATE: 2002-12-13
; PRIOR APPLICATION NUMBER: PCT/EP01/06952
; PRIOR FILING DATE: 2001-06-19
```

;; PRIOR APPLICATION NUMBER: GB 0015619.0
;; PRIOR FILING DATE: 2000-06-26
;; PRIOR APPLICATION NUMBER: GB 0026484.6
;; PRIOR FILING DATE: 2000-10-30
;; NUMBER OF SEQ ID NOS: 8
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 3
;; LENGTH: 2133
;; TYPE: DNA
;; ORGANISM: Chimaeric (E. coli - human)
US-10-296-770-3

Query Match 100.0%; Score 25; DB 15; Length 2133;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGTGGTGACAGCTTCAGCCGCC 25
Db 1572 GCGCGTGGTGACAGCTTCAGCCGCC 1596
|||||

RESULT 26

US-09-841-894-15
; Sequence 15, Application US/09841894
; Publication No. US20020086301A1
; GENERAL INFORMATION:

APPLICANT: BILLING-MEDEL, PATRICIA
; COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GORDON, JULIAN
; GRANADOS, EDWARD N.
; HODGES, STEVEN C.
; KLOSS, MICHAEL R.
; KRATOCHVIL, JON D.
; ROBERTS-RAPP, LISA

TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE PROSTATE

NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA

ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/841,894
FILING DATE: 25-Apr-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION NUMBER: 09/071,710
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 2143 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-09-841-894-15

Query Match 100.0%; Score 25; DB 9; Length 2143;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGTGGTGACAGCTTCAGCCGCC 25
Db 224 GCGCGTGGTGACAGCTTCAGCCGCC 248
|||||

RESULT 27

US-09-841-894-16
; Sequence 16, Application US/09841894
; Publication No. US20020086301A1
; GENERAL INFORMATION:

APPLICANT: BILLING-MEDEL, PATRICIA
; COHEN, MAURICE
; COLPITTS, TRACEY L.
; FRIEDMAN, PAULA N.
; GORDON, JULIAN
; GRANADOS, EDWARD N.
; HODGES, STEVEN C.
; KLOSS, MICHAEL R.
; KRATOCHVIL, JON D.
; ROBERTS-RAPP, LISA

TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE PROSTATE

NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA

ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/841,894
FILING DATE: 25-Apr-2001
CLASSIFICATION: <Unknown>

PRIOR APPLICATION NUMBER: 09/071,710
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2152 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 16:

Query Match 100.0%; Score 25; DB 9; Length 2152;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGTGGTGACAGCTTCAGCCGCC 25
Db 232 GCGCGTGGTGACAGCTTCAGCCGCC 256
|||||

RESULT 28

US-10-295-027-901
; Sequence 901, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Gineberg, Wendy M.
; APPLICANT: Gieh, Kurt C.
; APPLICANT: Glyme, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 901
; LENGTH: 2582
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (1)..(2582)
; OTHER INFORMATION: n = g, a, c or t
US-10-295-027-901

Query Match 100.0%; Score 25; DB 17; Length 2582;
Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGTGTGACAGCTTCAGCGGCC 25

Db 1434 GGCGTGTGACAGCTTCAGCGGCC 1458

RESULT 29

US-09-759-143-703
; Sequence 703, Application US/09759143
; Patent No. US2002022248A1
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi

; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C23
; CURRENT APPLICATION NUMBER: US/09/759,143
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 934
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-759-143-703

Query Match 100.0%; Score 25; DB 9; Length 2904;

Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCGTGTGACAGCTTCAGCGGCC 25

Db 980 GGCGTGTGACAGCTTCAGCGGCC 1004

RESULT 30

US-09-780-669-703
; Sequence 703, Application US/09780669
; Patent No. US20020051977A1
; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Jiang, Yuqi
; APPLICANT: Henderson, Robert A.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Stolk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Carter, Darrick
; APPLICANT: Li, Samuel
; APPLICANT: Wang, Aijun
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Hepler, William
; APPLICANT: Hural, John
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF PROSTATE CANCER
; FILE REFERENCE: 210121.427C24
; CURRENT APPLICATION NUMBER: US/09/780,669
; CURRENT FILING DATE: 2001-02-09
; NUMBER OF SEQ ID NOS: 943
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 703
; LENGTH: 2904
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-780-669-703

Query Match 100.0%; Score 25; DB 9; Length 2904;

Best Local Similarity 100.0%; Pred. No. 0.12;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGCCGTGGTGACAGCTTCAGCGCC 25
Db 980 GGCCGTGGTGACAGCTTCAGCGCC 1004

Search completed: June 16, 2005, 04:05:38
Job time : 459.547 secs